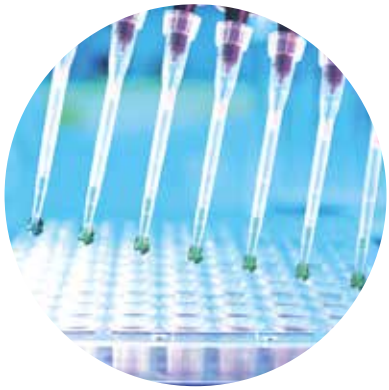
MCE®
MedChem Express

Compound Screening Libraries

Optimized for drug screening and new indication research

- Bioactive Compound Library
- FDA-Approved Drug Library
- Anti-Cancer Compound Library
- Kinase Inhibitor Library
- Epigenetics Compound Library
- GPCR/G Protein Compound Library
- Clinical Compound Library
- Anti-Infection Compound Library

Bioactive Compound Screening Libraries (96-well)



Our ready-to-use **MedChemExpress (MCE)** compound libraries consist of **over 4000** small molecules with validated biological and pharmacological activities. They are available for **high-throughput screening (HTS)** and **high-content screening (HCS)**. Compound libraries are useful professional tools for drug discovery and new indication research.

- **Safety** and **effectiveness** have been confirmed by literature, patent reports and clinical research. Many products are **FDA-approved**.
- Focuses on hundreds of targets that are **key components** in the fields of GPCR, kinase, anti-cancer, epigenetics, stem cell biology, etc.
- Up-to-date with the latest **medical molecule** developments and offers access to our **exclusive Clinical Compound Library**.
- **Detailed biological and chemical information** are provided for every compound together with the LC/MS and NMR reports to ensure high quality.

We offer **over 300 exclusive compounds worldwide** and track the latest scientific innovations to give our customers access to **the newest** small molecules. We are dedicated to providing **high-quality small molecules** to our customers around the world.

Customize Your Library

MCE offers customized compound libraries based on your specific needs.
You can select compounds, format (powder/liquid), size and plate map depending on your requirements.

Specific Compounds → Quantities → Plate Map → Concentration → Format (Dry/solid or DMSO Solution) → YES

Publications Citing Use of MCE Products

Nature. 2017 Aug 24;548(7668):471-475.

Nature. 2017 Jun 15;546(7658):426-430.

Nature. 2017 May 18;545(7654):355-359.

Nature. 2016 Dec 1;540(7631):119-123.

Nature. 2016 May 18;533(7604):493-8.

Nature. 2014 Sep 4;513(7516):65-70.

Science. 2016 Apr 1;352(6281):54-61.

Science. 2015 May 15;348(6236):799-803.

Science. 2014 Oct 3;346(6205):1255784.

Science. 2014 Oct 10;346(6206):244-7.

Cell. 2017 Jan 12;168(1-2):264-279.e15.

Cell. 2014 Dec 18;159(7):1549-62.

Cell. 2014 Feb 13;156(4):771-85.

Nat Med. 2017 Sep;23(9):1055-1062.

Nat Med. 2017 Jun;23(6):723-732.

Nat Med. 2017 Apr 7;23(4):405-408.

Nat Med. 2016 Oct;22(10):1160-1169.

Nat Med. 2016 Jul;22(7):723-6.

Nat Med. 2016 May;22(5):547-56.

Cancer Cell. 2017 May 8;31(5):635-652.e6.

Cancer Cell. 2017 Apr 10;31(4):576-590.e8.

Cancer Cell. 2017 Apr 10;31(4):501-515.e8.

Cell Stem Cell. 2017 May 4;20(5):621-634.e6.

Immunity. 2016 Oct 18;45(4):802-816.

... See more citations on www.MedChemExpress.com

MCE Screening Library Partners

National Institutes of Health
Turning Discovery Into Health

DANA-FARBER CANCER INSTITUTE

BROAD INSTITUTE

Karolinska Institutet

清華大學 Tsinghua University

Massachusetts Institute of Technology

Institute of Biochemistry and Cell Biology
Shanghai Institutes for Biological Sciences, CAS

HARVARD UNIVERSITY

Children's Cancer Institute

Northwestern University

Calibr

PEKING UNIVERSITY

TELETHON KIDS INSTITUTE

THE SCRIPPS RESEARCH INSTITUTE

National Cancer Centre Singapore
SingHealth

UCSF
University of California San Francisco

Takeda

SIGMA-ALDRICH
A Part of MilliporeSigma

SIMM
Shanghai Institute of Materia Medica, Chinese Academy of Sciences

復旦大學 FUDAN UNIVERSITY

UNIVERSITY of OTAGO
Te Whare Wānanga o Otāgo
NEW ZEALAND

THE UNIVERSITY of NEW MEXICO

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Genea BIOCELLS

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Bioactive Compound Library

Cat. No.: HY-L001

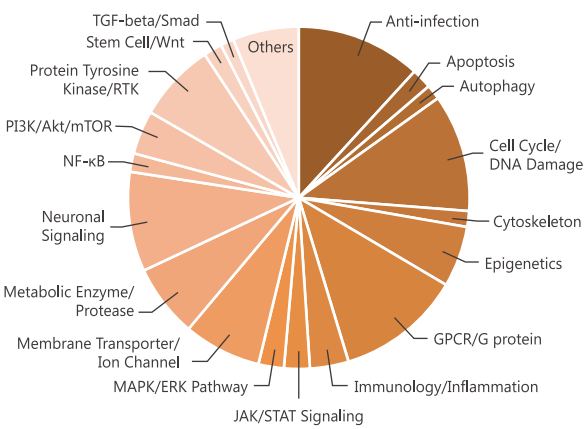
Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Bioactive Compound Library	HY-L001	4046	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **4046** bioactive compounds including natural products, enzyme inhibitors, receptor ligands, and drugs for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some have been approved by FDA.
- Widely used in the research focus areas such as **Cancer**, **Stem Cell**, **Neuronal Signaling**, **Immunity**, and more.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and other chemical & biological data.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

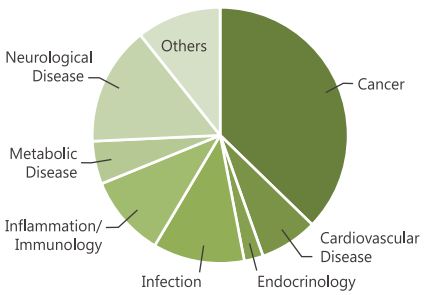
Targets Included in Bioactive Compound Library:

5-HT Receptor	ACE	Adenosine Receptor	AChE	Adrenergic Receptor	Akt	Androgen Receptor
Angiotensin Receptor	ALK	Antibacterial	Antifolate	Antifungal	Apoptosis	Antiparasitic
ATM/ATR	Aurora Kinase	Bcl-2 Family	Bcr-Abl	Calcium Channel	Casein Kinase	Cannabinoid Receptor
CDK	c-Kit	c-Met/HGFR	COX	Cytochrome P450	CXCR	DNA Alkylator/Crosslinker
DNA/RNA Synthesis	DPP4	Dopamine Receptor	EGFR	Epigenetic Reader Domain	ERK	Estrogen Receptor/ERR
FGFR	FLT3	GABA Receptor	GSK-3	Glucocorticoid Receptor	HCV	HDAC
HIF/HIF Prolyl-Hydroxylase	HIV	Histamine Receptor	HSP	Histone Methyltransferase	HSV	IGF-1R
IKK	JAK	LRRK2	mAChR	MDM-2/p53	MEK	mGluR
Microtubule/Tubulin	mTOR	nAChR	NF-κB	NMDA Receptor	OX Receptor	Opioid Receptor
p38 MAPK	PARP	PDE	PDGFR	PI3K	PLK	Potassium Channel
PPAR	Proteasome	Progesterone Receptor	Raf	Ras	ROR	SGLT
Sodium Channel	Src	Syk	TGF-β Receptor	Topoisomerase	TRP Channel	VEGFR ...

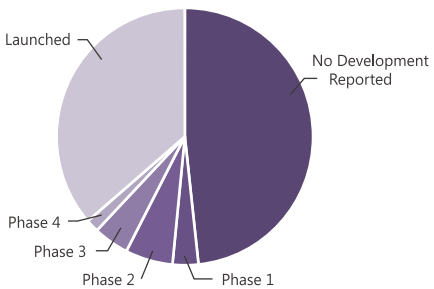
Targeted Pathways of Bioactive Compounds



Targeted Research Areas of Bioactive Compounds



Clinical Phase for Bioactive Compounds



FDA-Approved Drug Library

Cat. No.: HY-L022

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
FDA-Approved Drug Library	HY-L022	1472	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **1472** marketed drugs for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Used in the research of **oncology**, **cardiology**, **anti-inflammatory**, **immunology**, **dermatology**, **endocrinology**, **neurology**, and more.
- A useful tool for **researching new targets of marketed old drugs**.
- All compounds have been approved by the **FDA** or **EMA**.
- Structurally diverse, bioactive, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated ensure high purity.
- All compounds are in stock and continuously updated.

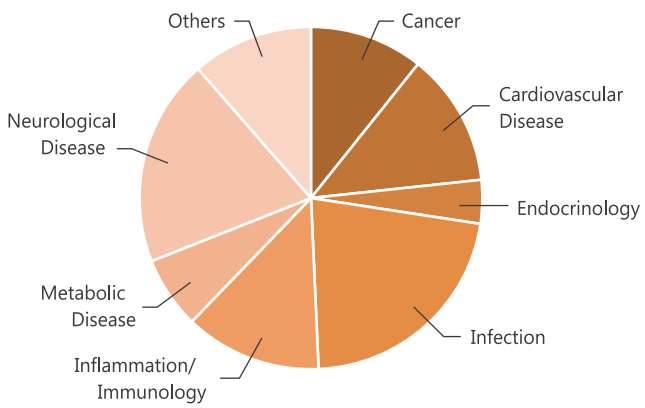
Targets Included in FDA-Approved Drug Library:

5 alpha Reductase	5-HT Receptor	ACE	AChE	Adenosine Receptor	ALK	Adrenergic Receptor
Androgen Receptor	Angiotensin Receptor	Antibacterial	Antifolate	Antifungal	Antiparasitic	Autophagy
Bcr-Abl	Calcium Channel	CaSR	Carbonic Anhydrase	c-Kit	c-Met/HGFR	Cytochrome P450
CXCR	DNA alkylator	DPP4	DNA/RNA Synthesis	Dopamine Receptor	EGFR	Endothelin Receptor
Estrogen Receptor	Factor Xa	GABA Receptor	Glucocorticoid Receptor	HBV	HCN Channel	HCV
HDAC	Histamine Receptor	HIV	HMG-CoA Reductase	HSV	Influenza Virus	JAK
Leukotriene Receptor	mAChR	mGluR	Microtubule/Tubulin	Monoamine Oxidase	nAChR	Neurokinin Receptor
NMDA Receptor	NNRTIs	NRTIs	Opioid Receptor	P2Y Receptor	PDE	PDGFR
PGE synthase	Potassium Channel	PKC	Progesterone Receptor	PPAR	Proteasome	Proton Pump
Raf	RAR/RXR	Ras	Sodium Channel	SGLT	Src	SSRIs
STAT	Thrombin	TNF-alpha	Topoisomerase	Vasopressin Receptor	VEGFR	Xanthine Oxidase ...

Publications Citing Use of MCE FDA-Approved Library Drugs:

Nature. 2017 Aug 24;548(7668):471-475.
Nature. 2017 Jun 15;546(7658):426-430.
Science. 2014 Oct 3;346(6205):1255784.
Nat Med. 2017 Apr 7;23(4):405-408.
Nat Med. 2016 Jul;22(7):723-6.
Nat Med. 2016 May;22(5):547-56.
Nat Med. 2014 Aug;20(8):927-35.
Cancer Cell. 2017 Apr 10;31(4):501-515.e8.
Cancer Discov. 2017 Jan;7(1):54-71.
Cancer Discov. 2016 Oct;6(10):1118-1133.
...

Principle Research Areas of FDA-Approved Drug Library



Anti-Cancer Compound Library

Cat. No.: HY-L025

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Anti-Cancer Compound Library	HY-L025	1481	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **1481** bioactive anti-cancer compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets include **kinases**, **cell cycle key components**, **tumorigenesis related signaling pathways**, **popular targets in epigenetic studies**, and more.
- A useful tool for the **discovery of anti-cancer drugs**.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Detailed compound information with structure, IC_{50}, and brief introduction.
- Validated NMR and HPLC to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Anti-Cancer Compound Library:

5 alpha Reductase	Ack1	ADC Cytotoxin	Akt	Aldose Reductase	ALK	AMPK
Antibacterial	Androgen Receptor	Antifolate	ATM/ATR	Apoptosis	Aurora Kinase	Autophagy
Axl	Bcl-2 Family	Bcr-Abl	BCRP	Btk	Casein Kinase	Cannabinoid Receptor
Caspase	CDK	c-Fms	Checkpoint Kinase (Chk)	c-Kit	c-Met/HGFR	CXCR
Deubiquitinase	DNA alkylator	DNA-PK	DNA Methyltransferase	E1/E2/E3 Enzyme	EGFR	Epigenetic Reader Domain
ERK	Estrogen Receptor	FAK	Farnesyl Transferase	FGFR	FLT3	GSK-3
HDAC	Hedgehog	Hexokinase	HIF/HIF Prolyl-Hydroxylase	Histone Demethylase	HSP	Histone Methyltransferase
IAP	IGF-1R	IKK	IDO	Insulin Receptor	Integrin	IDH
JAK	JNK	Keap1-Nrf2	KSP	MDM-2/p53	MEK	Microtubule/Tubulin
MMP	mTOR	Myosin	Nampt	NF-κB	P2X Receptor	Nucleoside antimetabolite
p38 MAPK	p97	PAK	PARP	PDGFR	PDK-1	PERK
P-glycoprotein	Phospholipase	PI3K	Pim	PKC	PKD	Polo-like Kinase (PLK)
PPAR	Proteasome	Raf	RAR/RXR	Ras	ROCK	Ribosomal S6 Kinase
ROR	Sigma Receptor	Sirtuin	Smo	Src	STAT	Syk
TNF-alpha	TGF-β Receptor	TLR	Topoisomerase	Trk Receptor	VEGFR	Wnt/β-catenin ...

Publications Citing Use of MCE Anti-Cancer Library Compounds:

Nature. 2017 May 18;545(7654):355-359.
Nature. 2016 Dec 1;540(7631):119-123.
Science. 2016 Apr 1;352(6281):54-61.
Science. 2015 May 15;348(6236):799-803.
Cell. 2017 Jan 12;168(1-2):264-279.e15.
Cell. 2014 Feb 13;156(4):771-85.
Nat Med. 2017 Sep;23(9):1055-1062.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Kinase Inhibitor Library

Cat. No.: HY-L009

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Kinase Inhibitor Library	HY-L009	749	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **749** phosphorylation kinase inhibitors/regulators for **high throughput screening (HTS)** and **high content screening (HCS)**.
- The library contains compounds targeting **protein kinases (VEGFR, EGFR, BTK, CDK, Akt, etc.)**, **lipid kinases (PI3K, PI4K, SK, etc.)** and **carbohydrate kinases (Hexokinase)**.
- Kinase inhibitors have played an increasingly prominent role in the treatment of cancer and other diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and customer reviews.
- NMR and HPLC validated to ensure high purity.
- All compounds are in stock and continuously updated.

Targets Included in Kinase Inhibitor Library:

ACK1	Adenosine Kinase	Akt	ALK	AMPK	Aurora Kinase	ATM/ATR
Axl	Bcr-Abl	BMX Kinase	Btk	CaMK-II	Casein Kinase	CDK
c-Fms	Checkpoint Kinase (Chk)	c-Kit	c-Met/HGFR	DAPK	DDR1/DDR2 Receptor	DNA-PK
DYRK	Ephrin Receptor	EGFR	ERK	FAK	FGFR	FLT3
GSK-3	Glucokinase	Haspin Kinase	IGF-1R	IKK	Insulin Receptor	IRAK
ITK	JAK	JNK	LIM Kinase(LIMK)	MAPKAPK2 (MK2)	MEK	MELK
MNK	Mixed Lineage Kinase	p38 MAPK	PAK	PDGFR	PDHK	PDK-1
PERK	PI3K	PI4K	PIKfyve	Pim	PKA	PKC
PKD	Polo-like Kinase (PLK)	Pyk2	Raf	Ribosomal S6 Kinase	RIP Kinase	ROCK
Ros1	Salt-inducible Kinases (SIKs)	SGK	SPHK	Src	SRPK	Syk
TAK1	Trk Receptor	ULK	VEGFR	Wee1	...	

Publications Citing Use of MCE Kinase Library Inhibitors:

Nature. 2017 Jun 15;546(7658):426-430.
Cell. 2017 Jan 12;168(1-2):264-279.e15.
Cell. 2014 Feb 13;156(4):771-85.
Nat Med. 2017 Apr 7;23(4):405-408.
Nat Med. 2016 Jul;22(7):723-6.
Nat Med. 2016 May;22(5):547-56.
Cancer Cell. 2014 Feb 10;25(2):226-42.
Cancer Discov. 2016 Dec;6(12):1334-1341.
Cancer Discov. 2016 Oct;6(10):1118-1133.
Cancer Discov. 2015 Sep;5(9):960-71.
Cancer Discov. 2012 Oct;2(10):934-47.
Cancer Discov. 2012 May;2(5):425-33.
Cell Metab. 2017 Apr 4;25(4):868-882.e5.
Cell Metab. 2012 Mar 7;15(3):382-94.
Sci Transl Med. 2013 Jul 31;5(196):196ra99.
...

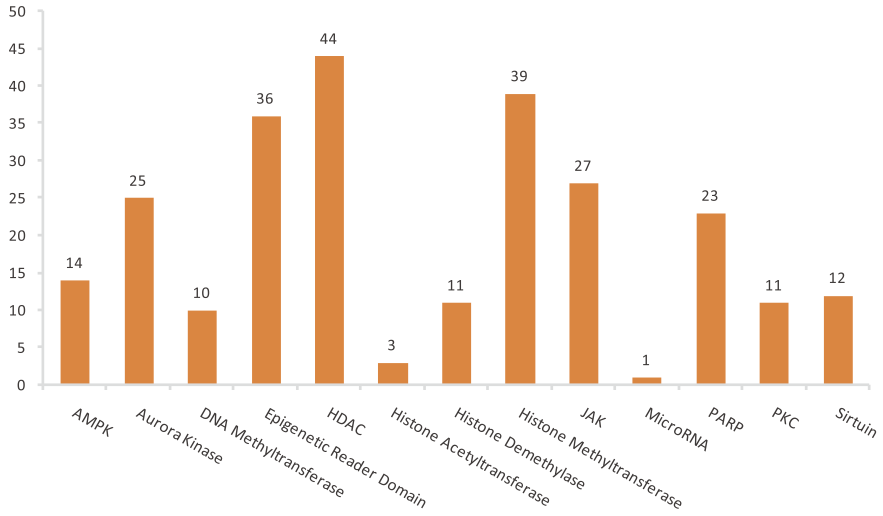
Epigenetics Compound Library

Cat. No.: HY-L005

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Epigenetics Compound Library	HY-L005	247	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **247** small molecule modulators with biological activity used for epigenetics research and associated assays.
- The library contains epigenetics-related compounds targeting **HDAC**, **Histone Demethylase**, **Histone Acetyltransferase (HAT)**, **DNA Methyltransferase (DNMT)**, **Epigenetic Reader Domain**, **MicroRNA**, etc.
- A valuable tool for chemical genomics, epigenetic target identification in pharmacogenomics, and other biological applications.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some compounds have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and other chemical & biological data.
- NMR and HPLC validated to ensure the highest purity.
- All compounds are in stock and continuously updated.

Epigenetics Compound Library Composition



Publications Citing Use of MCE Epigenetics Library Compounds:

Nat Med. 2017 Sep;23(9):1055-1062.
Nat Chem Biol. 2016 Jul;12(7):504-10.
Mol Psychiatry. 2017 May;22(5):711-723.
Blood. 2014 Dec 18;124(26):3924-31.
Blood. 2013 Nov 21;122(22):3628-31.
Nat Commun. 2017 Sep 5;8(1):435.
J Exp Med. 2017 Aug 7;214(8):2349-2368.
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Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

GPCR/G Protein Compound Library

Cat. No.: HY-L006

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
GPCR/G Protein Compound Library	HY-L006	591	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **591** small molecules targeting **G protein coupled receptors** used in GPCR screening for various research and drug development projects.
- Targets such as **5-HT Receptor**, **Dopamine Receptor**, **Opioid Receptor**, **Adrenergic Receptors**, **Cannabinoid Receptor**, **mGluR**, **ETA Receptor**, etc.
- The most successful class of drugable targets in the human genome and remain the most attractive family of targets.
- All of the small molecules in the GPCR library are well characterized with biological and pharmaceutical activity. Some compounds have been approved by the FDA.
- A powerful tool for discovering GPCR-based drugs that are the richest signal receptor targets for drug discovery.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure the highest purity.
- All compounds are in stock and continuously updated.

Targets Included in GPCR/G Protein Compound Library:

5-HT Receptor	Adenosine Receptor	Adiponectin Receptor	Adrenergic Receptor	Angiotensin Receptor
Bombesin Receptor	Bradykinin Receptor	Cannabinoid Receptor	CaSR	CCR
CGRP Receptor	Cholecystokinin Receptor	CRTH2 (GPR44)	CXCR	Dopamine Receptor
EBI2/GPR183	Endothelin Receptor	GHSR	Glucagon Receptor	Glucocorticoid Receptor
GNRH Receptor	GPCR19	GPR109A	GPR119	GPR120
GPR139	GPR40	GPR55	GPR84	Histamine Receptor
Imidazoline Receptor	Leukotriene Receptor	LPL Receptor	mAChR	Melatonin Receptor
mGluR	Motilin Receptor	Neurokinin Receptor	Neuropeptide Y Receptor	Neurotensin Receptor
Opioid Receptor	Orexin Receptor (OX Receptor)	P2Y Receptor	Prostaglandin Receptor	Protease-Activated Receptors (PARs)
Ras	RGS	Sigma Receptor	TSH Receptor	Vasopressin Receptor ...

Publications Citing Use of MCE GPCR/G Protein Library Compounds:

Nat Med. 2017 Apr 7;23(4):405-408.
J Allergy Clin Immunol. 2016 Jul;138(1):114-122.e4.
Ann Rheum Dis. 2016 Apr;75(4):730-8.
J Clin Invest. 2017 Sep 1;127(9):3402-3406.
Nat Commun. 2017 May 26;8:15584.
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Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

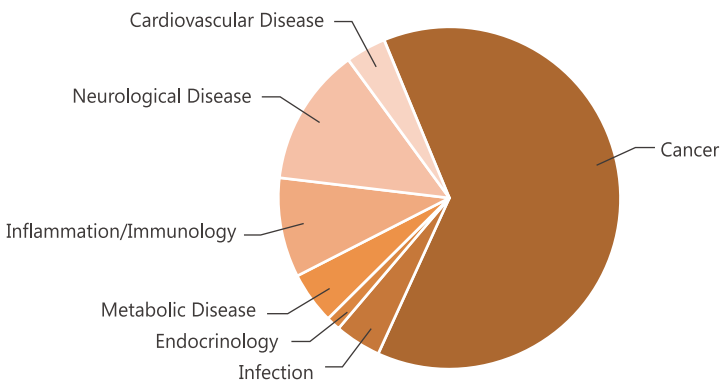
Clinical Compound Library

Cat. No.: HY-L026

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Clinical Compound Library	HY-L026	610	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **610** clinical compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Research areas include **anticancer**, **anti-infection**, **anti inflammation**, **nervous disease**, and more.
- A useful tool for drug repurposing, the application of an existing therapeutic to a new disease indication.
- **Currently in clinical stage**, some are withdrawn or terminated.
- Structurally diverse, medicinally active, and cell permeable.
- Detailed compound information with structure, IC_{50}, and brief introduction.
- Validated NMR and HPLC to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Principle Research Areas of Clinical Compound Library



Publications Citing Use of MCE Clinical Library Compounds:

Nature. 2017 May 18;545(7654):355-359.
Nature. 2017 Aug 24;548(7668):471-475.
Science. 2016 Apr 1;352(6281):54-61.
Science. 2015 May 15;348(6236):799-803.
Cell. 2017 Jan 12;168(1-2):264-279.e15.
Nat Med. 2016 Jul;22(7):723-6.
Cancer Cell. 2014 Feb 10;25(2):226-42.
Immunity. 2016 Oct 18;45(4):944.
Nat Cell Biol. 2015 Sep;17(9):1134-44.
Nat Cell Biol. 2014 Dec;16(12):1249-56.
Nat Cell Biol. 2012 Feb 5;14(3):295-303.
Cancer Discov. 2017 Apr;7(4):380-390.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Anti-Infection Compound Library

Cat. No.: HY-L002

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Anti-Infection Compound Library	HY-L002	452	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **452** bioactive anti-infection compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **Bacteria**, **Fungi**, **Parasite**, **CMV**, **HIV**, **SARS-CoV**, **Influenza Virus**, etc.
- Bioactivity and safety confirmed by preclinical research and clinical trials, some have been approved by FDA.
- A useful tool to study infectious diseases or develop new anti-infection drugs.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and other chemical & biological data.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Anti-Infection Compound Library:

Antibacterial	Antifungal	Antiparasitic	CMV	Filovirus
HBV	HCV	HIV	HSV	Influenza Virus
NNRTIs	NRTIs	Rhinovirus (HRV)	RSV	SARS-CoV ...

Publications Citing Use of MCE Anti-Infection Library Compounds:

Nat Med. 2014 Aug;20(8):927-35.
Gastroenterology. 2015 Feb;148(2):392-402.e13.
ACS Nano. 2014 Jun 24;8(6):5468-77.
Nat Commun. 2014 Oct 30;5:5352.
Nucleic Acids Res. 2017 May 5;45(8):4743-4755.
Proc Natl Acad Sci U S A. 2017 Feb 21;114(8):1922-1927.
EMBO Rep. 2016 Jul;17(7):1013-28.
Nanoscale. 2017 Jul 13;9(27):9676-9684.
PLoS Pathog. 2017 Jun 19;13(6):e1006449.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Autophagy Compound Library

Cat. No.: HY-L029

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Autophagy Compound Library	HY-L029	520	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **520** small molecule compounds with biological activity used for **autophagy research and associated assays**.
- Targets include **Autophagy**, **LRRK2**, and **ULK**.
- A useful tool for the research of autophagy-related regulation and diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Detailed compound information with structure, IC_{50}, and brief introduction.
- Validated NMR and HPLC to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Autophagy Compound Library:

Autophagy	LRRK2	ULK

Publications Citing Use of MCE Autophagy Library Compounds:

Nature. 2017 Aug 24;548(7668):471-475.
Nature. 2016 Dec 1;540(7631):119-123.
Cell. 2017 Jan 12;168(1-2):264-279.e15.
Nat Med. 2016 May;22(5):547-56.
Nat Med. 2016 Jul;22(7):723-6.
Cancer Cell. 2014 Feb 10;25(2):226-42.
Cell Stem Cell. 2017 May 4;20(5):621-634.e6.
Cancer Discov. 2017 Jan;7(1):54-71.
Cancer Discov. 2017 Apr;7(4):380-390.
Cancer Discov. 2012 May;2(5):425-33.
Cell Metab. 2012 Mar 7;15(3):382-94.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Anti-Virus Compound Library

Cat. No.: HY-L027

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Anti-Virus Compound Library	HY-L027	106	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **106** bioactive anti-virus compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets include **HBV**, **HCV**, **HIV**, **HSV**, **Influenza Virus**, **Reverse Transcriptase**, etc.
- A useful tool for the discovery of anti-virus drugs.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Detailed compound information with structure, IC_{50}, and brief introduction.
- Validated NMR and HPLC to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Anti-Virus Compound Library:

CMV	HBV	HCV	HCV Protease	HIV	HIV Integrase
HIV Protease	HSV	Influenza Virus	NNRTIs	Reverse Transcriptase	RSV ...

Publications Citing Use of MCE Anti-Virus Library Compounds:

Nat Med. 2014 Aug;20(8):927-35.
Gastroenterology. 2015 Feb;148(2):392-402.e13.
ACS Nano. 2014 Jun 24;8(6):5468-77.
Nat Commun. 2014 Oct 30;5:5352.
Nucleic Acids Res. 2017 May 5;45(8):4743-4755.
Proc Natl Acad Sci U S A. 2017 Feb 21;114(8):1922-1927.
EMBO Rep. 2016 Jul;17(7):1013-28.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Apoptosis Compound Library

Cat. No.: HY-L003

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Apoptosis Compound Library	HY-L003	94	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **94** small molecules used for survival, proliferation and apoptosis research.
- Targets such as **Bcl-2 Family**, **Caspase**, **DAPK**, **IAP**, **MDM2/p53**, **PKD**, **Survivin**, etc.
- Bioactivity and safety confirmed by preclinical research and clinical trials, some compounds have been approved by FDA.
- A useful tool to study apoptosis-involved regulation and diseases such as **cancer**, **aging**, **neurodegenerative disease**, and more.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and other chemical & biological data.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Apoptosis Compound Library:

Apoptosis	Bcl-2 Family	c-Myc	Caspase	DAPK
IAP	MDM-2/p53	PKD	RIP kinase	Survivin
Thymidylate Synthase	TNF-alpha			

Publications Citing Use of MCE Apoptosis Library Compounds:

Nat Med. 2017 Apr 7;23(4):405-408.
Nat Commun. 2017 May 22;8:15398.
Clin Cancer Res. 2016 Mar 1;22(5):1185-96.
Haematologica. 2017 Apr;102(4):755-764.
Cancer Lett. 2016 Aug 28;379(1):134-142.
Mol Neurobiol. 2014 Apr;49(2):1087-101.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Cell Cycle/DNA Damage Compound Library

Cat. No.: HY-L004

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Cell Cycle/DNA Damage Compound Library	HY-L004	447	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **447** Cell Cycle/DNA Damage related compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **CDK**, **ROCK**, **Aurora Kinase**, **ATM/ATR**, **DNA-PK**, **DNA/RNA Synthesis**, etc.
- A useful tool to study the mechanism of cell cycle regulators that are critical to normal development and the development of **cancer**, **cardiovascular**, **inflammatory**, and **neurodegenerative diseases**.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some compounds have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and other chemical & biological data.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Cell Cycle/DNA Damage Compound Library:

Antifolate	APC	ATM/ATR	Aurora Kinase	Casein Kinase
CDK	Checkpoint Kinase (Chk)	CRISPR/Cas9	Deubiquitinase	DNA Alkylator/Crosslinker
DNA-PK	DNA/RNA Synthesis	G-quadruplex	Haspin Kinase	HDAC
HSP	Kinesin	KSP	LIM Kinase (LIMK)	Microtubule/Tubulin
Mps1	Nucleoside antimetabolite	p97	PAK	PARP
PERK	Polo-like Kinase (PLK)	PPAR	PTEN	RAD51
ROCK	Sirtuin	Telomerase	Topoisomerase	Wee1 ...

Publications Citing Use of MCE Cell Cycle/DNA Damage Library Compounds:

Nature. 2017 Jun 15;546(7658):426-430.
Science. 2015 May 15;348(6236):799-803.
Science. 2014 Oct 10;346(6206):244-7.
Cell. 2017 Jan 12;168(1-2):264-279.e15.
Nat Med. 2016 May;22(5):547-56.
Nat Cell Biol. 2015 Sep;17(9):1134-44.
Nat Cell Biol. 2014 Dec;16(12):1249-56.
Nat Cell Biol. 2012 Feb 5;14(3):295-303.
Mol Psychiatry. 2017 May;22(5):711-723.
Trends Pharmacol Sci. 2014 Apr;35(4):187-207.
Nat Commun. 2017 Sep 5;8(1):435.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

CNS-Penetrant Compound Library

Cat. No.: HY-L028

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
CNS-Penetrant Compound Library	HY-L028	97	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **97** bioactive CNS-penetrant compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **Kinases**, **GPCR** and **Ion Channels**, and more.
- A useful tool for the discovery of drugs used for **brain diseases**, such as brain tumors, mental disorders, and neurodegenerative diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, CNS-penetrant and cell permeable.
- More detailed compound information with structure, IC50, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in CNS-Penetrant Compound Library:

5-HT Receptor	AChE	ADC Cytotoxin	Adenosine Receptor	Adrenergic Receptor
Amyloid-β	Antibacterial	Antifolate	Antifungal	Antiparasitic
Bcr-Abl	Calcium Channel	Carbonic Anhydrase	CDK	c-Kit
COMT	COX	DNA Alkylator/Crosslinker	DNA/RNA Synthesis	Dopamine Receptor
EGFR	Estrogen Receptor/ERR	GABA Receptor	Histamine Receptor	HIV
HIV Protease	HMG-CoA Reductase	HSV	Influenza Virus	Melatonin Receptor
mGluR	mTOR	nAChR	Neurokinin Receptor	NMDA Receptor
NRTIs	Nucleoside Antimetabolite	p38 MAPK	PDE	PDGFR
PGE Synthase	Raf	Sodium Channel	Src	VEGFR ...

Publications Citing Use of MCE CNS-Penetrant Library Compounds:

Nature. 2017 Aug 24;548(7668):471-475.
Nat Med. 2017 Apr 7;23(4):405-408.
Nat Med. 2016 Jul;22(7):723-6.
ACS Nano. 2014 Jun 24;8(6):5468-77.
Nat Commun. 2017 May 22;8:15398.
Leukemia. 2012 Oct;26(10):2233-44.
J Pineal Res. 2016 Sep;61(2):208-17.
Mol Syst Biol. 2015 Mar 26;11(3):797.
Biomaterials. 2014 Aug;35(24):6585-94.
Oncogene. 2017 May 11;36(19):2643-2654.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

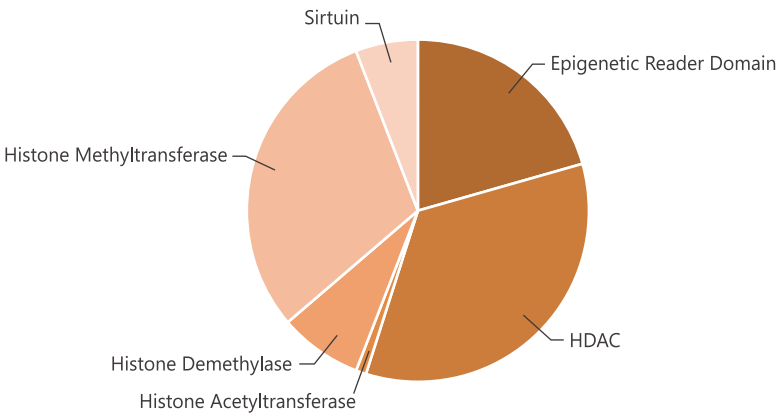
Histone Modification Research Compound Library

Cat. No.: HY-L024

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Histone Modification Research Compound Library	HY-L024	140	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **140** bioactive compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets include **Epigenetic Reader Domain**, **HDAC**, **Histone Acetyltransferase**, **Histone Demethylase**, **Histone Methyltransferase**, **Sirtuin**, etc.
- A useful tool for the research of the regulation of histone modification and the corresponding diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Histone Modification Research Compound Library Composition



Publications Citing Use of MCE Histone Modification Research Library Compounds:

Nat Med. 2017 Sep;23(9):1055-1062.
Nat Chem Biol. 2016 Jul;12(7):504-10.
Mol Psychiatry. 2017 May;22(5):711-723.
Nat Commun. 2017 Sep 5;8(1):435.
J Exp Med. 2017 Jul 6. pii: jem.20170724.
Leukemia. 2017 Feb 3.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Immunology/Inflammation Compound Library

Cat. No.: HY-L007

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Immunology/Inflammation Compound Library	HY-L007	188	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **188** small molecules with biological activity used for Immunology/Inflammation research.
- The library contains compounds targeting Immunology/Inflammation-related enzyme such as **CCR**, **COX**, **Interleukin Related**, **IRAK**, **MyD88**, **PDE**, **PD-1/PD-L1**, **TLR**, and more.
- A useful tool for researching the mechanism behind Immunology/Inflammation, drug screening and other pharmaceutical and biological applications.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some compounds have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Immunology/Inflammation Compound Library:

CCR	COX	Complement System	CRTH2 (GPR44)	CXCR
FLAP	Histamine Receptor	IFNAR	Interleukin Related	IRAK
MyD88	NO Synthase	NOD-like Receptors (NLRs)	PD-1/PD-L1	PGE Synthase
Salt-inducible Kinases (SIKs)	SPHK	STING	Thrombopoietin Receptor	Toll-like Receptor (TLR)

Publications Citing Use of MCE Immunology/Inflammation Library Compounds:

Nat Med. 2017 Apr 7;23(4):405-408.
J Allergy Clin Immunol. 2016 Jul;138(1):114-122.e4.
Ann Rheum Dis. 2016 Apr;75(4):730-8.
Ann Rheum Dis. 2016 Apr;75(4):721-9.
Nat Commun. 2017 May 26;8:15584.
Nat Commun. 2016 May 25;7:11724.
Cancer Res. 2016 Nov 15;76(22):6631-6642.
J Autoimmun. 2017 Jun;80:28-38.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

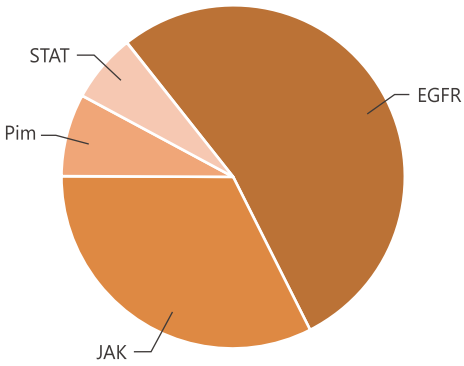
JAK/STAT Compound Library

Cat. No.: HY-L008

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
JAK/STAT Compound Library	HY-L008	101	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **101** bioactive compounds related to JAK/STAT signaling used for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets include **JAK**, **STAT**, **EGFR**, **Pim**, etc.
- A useful tool for JAK/STAT-related drug discovery.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

JAK/STAT Compound Library Composition



Publications Citing Use of MCE JAK/STAT Library Compounds:

Nature. 2017 Aug 24;548(7668):471-475.
Nat Med. 2016 Jul;22(7):723-6.
Blood. 2014 Dec 18;124(26):3924-31.
Blood. 2013 Nov 21;122(22):3628-31.
Leukemia. 2012 Oct;26(10):2233-44.
Cancer Immunol Res. 2016 Jun;4(6):520-30.
Neuro Oncol. 2017 Jan;19(1):22-30.
Elife. 2015 Feb 10;4:e05178.
Oncogene. 2017 May 25;36(21):2946-2956.
Oncogene. 2017 May 11;36(19):2643-2654.
Oncogene. 2016 Jun 9;35(23):2961-70.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

MAPK Compound Library

Cat. No.: HY-L010

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
MAPK Compound Library	HY-L010	99	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **99** MAPK signaling inhibitors for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **ERK**, **JNK**, **MEK**, **p38 MAPK**, **Raf**, **RSK**, etc.
- A useful tool for MAPK-related drug discovery and disease research.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in MAPK Compound Library:

ERK	JNK	KLF	MAPKAPK2 (MK2)	MEK
Mixed Lineage Kinase	MNK	p38 MAPK	Raf	Ribosomal S6 Kinase (RSK)

Publications Citing Use of MCE MAPK Library Compounds:

Nat Med. 2017 Apr 7;23(4):405-408.
Cancer Discov. 2015 Sep;5(9):960-71.
Cancer Discov. 2012 Oct;2(10):934-47.
Nat Commun. 2015 Sep 24;6:8390.
Mol Syst Biol. 2017 Jan; 13(1): 905.
Mol Syst Biol. 2015 Mar 26;11(3):797.
Clin Cancer Res. 2014 Dec 1;20(23):6034-44.
Clin Cancer Res. 2014 Nov 1;20(21):5483-95.
Clin Cancer Res. 2013 Feb 1;19(3):598-609.
Biomaterials. 2017 Mar 22;130:14-27.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Membrane Transporter/Ion Channel Compound Library

Cat. No.: HY-L011

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Membrane Transporter/Ion Channel Compound Library	HY-L011	328	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **328** small molecule modulators used for Ion Channel and Membrane Transporter research.
- The library contains compounds targeting Membrane Transporters including **Pgp**, **CRM1**, **BCRP**, etc., and Ion Channels including **CFTR**, **proton pump**, **sodium pump**, **calcium pump**, etc.
- A useful tool for the research of drug absorption and distribution.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and summary.
- NMR and HPLC validated to ensure high purity.
- All compounds are in stock and continuously updated.

Targets Included in Membrane Transporter/Ion Channel Compound Library:

ATP Synthase	BCRP	Calcium Channel	CFTR	Chloride Channel
CRAC Channel	CRM1	EAAT2	GABA Receptor	GlyT
HCN Channel	iGluR	Monoamine transporter	Monocarboxylate Transporter	Na^+/Ca^{2+} Exchanger
Na^+/HCO^{3-} Cotransporter	Na^+/K^+ ATPase	nAChR	NKCC	P-glycoprotein
P2X Receptor	Potassium Channel	Proton Pump	SGLT	Sodium Channel
TRP Channel	URAT1	VDAC		

Publications Citing Use of MCE Membrane Transporter/Ion Channel Library Compounds:

Cancer Cell. 2017 Apr 10;31(4):501-515.e8.

Nat Commun. 2016 Sep 15;7:12840.

EMBO Rep. 2016 Oct;17(10):1422-1430.

Diabetologia. 2017 Mar;60(3):568-573.

...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Metabolism/Protease Compound Library

Cat. No.: HY-L012

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Metabolism/Protease Compound Library	HY-L012	379	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **379** Metabolism/Protease-related small molecules for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **PDE**, **Cytochrome P450**, **HMG-CoA Reductase**, **DPP4**, **Proteasome**, **HCV Protease**, **IDO**, **Cathepsin**, **MMP**, etc.
- A useful tool for drug discovery of metabolism-related diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Metabolism/Protease Compound Library:

15-PGDH	5 alpha Reductase	5-Lipoxygenase	Adenosine Deaminase
Aldehyde Dehydrogenase (ALDH)	Aldose Reductase	Aminopeptidase	Angiotensin-converting Enzyme (ACE)
Carbonic Anhydrase	Carboxypeptidase	Cathepsin	DGAT
Cytochrome P450	Dipeptidyl Peptidase	Elastase	E1/E2/E3 Enzyme
FAAH	Factor Xa	Farnesyl Transferase	Fatty Acid Synthase (FAS)
Glucokinase	HCV Protease	HIF/HIF Prolyl-Hydroxylase	HIV Integrase
HIV Protease	HMG-CoA Reductase (HMGCR)	HSP	Indoleamine 2,3-Dioxygenase (IDO)
Isocitrate Dehydrogenase (IDH)	MAGL	MMP	Nampt
PAI-1	Phosphodiesterase (PDE)	Procollagen C Proteinase	Proteasome
Pyruvate Dehydrogenase	Renin	Ser/Thr Protease	Stearoyl-CoA Desaturase (SCD)
Thrombin	Tryptophan Hydroxylase	Tyrosinase	Xanthine Oxidase ...

Publications Citing Use of MCE Metabolism/Protease Library Compounds:

Nature. 2012 Jan 22;482(7383):116-9.
Science. 2016 Apr 1;352(6281):54-61.
Cell Stem Cell. 2017 May 4;20(5):621-634.e6.
Cell Stem Cell. 2016 Sep 1;19(3):326-40.
Immunity. 2016 Oct 18;45(4):944.
Cell Metab. 2017 Jan 10;25(1):73-85.
Hepatology. 2016 Apr;63(4):1272-86.
J Clin Invest. 2017 Apr 3;127(4):1517-1530.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

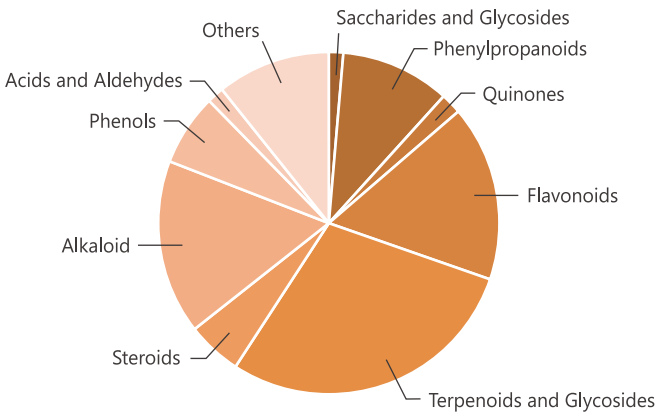
Natural Product Library

Cat. No.: HY-L021

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Natural Product Library	HY-L021	477	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **477** natural products for high throughput screening (HTS) and high content screening (HCS).
- The compounds in the library contain **Saccharides and Glycosides**, **Phenylpropanoids**, **Quinones**, **Flavonoids**, **Terpenoids and Glycosides**, **Steroids**, **Alkaloid**, **Phenols**, **Acids and Aldehydes**.
- A useful tool for drug discovery as an important source of lead compounds.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some compounds have been approved by FDA.
- Structurally diverse, bioactive, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated ensure high purity.
- All compounds are in stock and continuously updated.

Natural Product Library Composition



Publications Citing Use of MCE Natural Library Products:

Nat Med. 2016 May;22(5):547-56.
PLoS Pathog. 2017 Jun 19;13(6):e1006449.
Cancer Lett. 2017 Aug 18;407:45-56.
Mol Neurobiol. 2014 Apr;49(2):1087-101.
PLoS Genet. 2015 Mar 27;11(3):e1005120.
Cell Death Dis. 2017 Mar 23;8(3):e2702.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Neuronal Signaling Compound Library

Cat. No.: HY-L013

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Neuronal Signaling Compound Library	HY-L013	399	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **399** Neuronal Signaling-related compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **5-HT Receptor**, **AChE**, **Adrenergic Receptor**, **AMPAR**, **Beta-secretase**, **Dopamine Receptor**, **FAAH**, **Melatonin Receptor**, **AChR**, **Opioid Receptor**, **γ-secretase**, etc.
- A useful tool for the research of neuronal regulation and neuronal diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Neuronal Signaling Compound Library:

5-HT Receptor	AChE	Adenosine Kinase	Amyloid-β	Beta-secretase
CaMK	CGRP Receptor	COMT	Dopamine Receptor	Dopamine Transporter
FAAH	GABA Receptor	GlyT	iGluR	Imidazoline Receptor
mAChR	Melatonin Receptor	Monoamine Oxidase	nAChR	Neurokinin Receptor
Opioid Receptor	Serotonin Transporter	γ-secretase		

Publications Citing Use of MCE Neuronal Signaling Library Compounds:

Nat Med. 2017 Apr 7;23(4):405-408.
Hepatology. 2016 Jul;64(1):175-88.
J Allergy Clin Immunol. 2017 Mar;139(3):987-996.e10.
J Clin Invest. 2017 Sep 1;127(9):3402-3406.
Biol Psychiatry. 2017 May 1;81(9):737-747.
EMBO J. 2012 May 16;31(10):2261-74.
Proc Natl Acad Sci U S A. 2017 May 30;114(22):E4425-E4434.
EMBO Mol Med. 2017 Jul;9(7):950-966.
Cell Rep. 2016 Dec 6;17(10):2687-2699.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

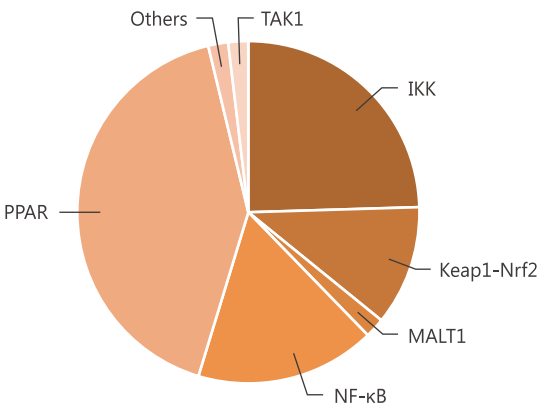
NF-κB Signaling Compound Library

Cat. No.: HY-L014

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
NF-κB Signaling Compound Library	HY-L014	103	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **103** NF-κB signaling related small molecule compounds for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **IKK**, **Keap1-Nrf2**, **NF-κB**, etc.
- A powerful tool for researching the mechanism behind cancer, drug screening based on NF-κB signaling pathway and other pharmaceutical and biological applications.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

NF-κB Signaling Compound Library Composition



Publications Citing Use of MCE NF-κB Signaling Library Compounds:

ACS Nano. 2015 Dec 22;9(12):11800-11.
Blood. 2015 Nov 12;126(20):2291-301.
Blood. 2015:blood-2015-06-654749.
Blood. 2015 Sep 10;126(11):1324-35.
Nat Commun. 2015 Jan 21;6:6074.
PLoS Pathog. 2016 Aug 24;12(8):e1005823.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

PI3K/Akt/mTOR Compound Library

Cat. No.: HY-L015

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
PI3K/Akt/mTOR Compound Library	HY-L015	158	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **158** small molecule inhibitors used for PI3K/Akt/mTOR pathway research.
- Targets such as **Akt**, **AMPK**, **DNA-PK**, **PDK-1**, **mTOR**, **PI3K**, **PTEN**, etc.
- A valuable tool for studying PI3K/Akt/mTOR-related survival, proliferation, and apoptosis of cells and related diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by the FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and summary.
- NMR and HPLC validated to ensure high purity.
- All compounds are in stock and continuously updated.

Targets Included in PI3K/Akt/mTOR Compound Library:

Akt	AMPK	ATM/ATR	DNA-PK	GSK-3	MELK
mTOR	PDK-1	PI3K	PI4K	PIKfyve	PTEN

Publications Citing Use of MCE PI3K/Akt/mTOR Library Compounds:

Nature. 2016 Dec 1;540(7631):119-123.
Cell. 2014 Feb 13;156(4):771-85.
Nat Med. 2016 Jul;22(7):723-6.
Nat Med. 2016 May;22(5):547-56.
Cancer Discov. 2012 May;2(5):425-33.
Cell Metab. 2012 Mar 7;15(3):382-94.
Sci Transl Med. 2013 Jul 31;5(196):196ra99.
Nat Chem Biol. 2017 Jan;13(1):38-45.
Mol Cell. 2017 Mar 2;65(5):873-884.e8.
Nat Commun. 2017 Sep 4;8(1):410.
Nat Commun. 2017 Jun 8;8:15617.
Nat Commun. 2016 Feb 2;7:10438.
Nat Commun. 2015 Oct 7;6:8501.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Protein Tyrosine Kinase Compound Library

Cat. No.: HY-L016

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Protein Tyrosine Kinase Compound Library	HY-L016	280	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **280** protein kinase inhibitors for **high throughput screening (HTS)** and **high content screening (HCS)**.
- Targets such as **VEGFR**, **ALK**, **Btk**, **Bcr-Abl**, **c-Met/HGFR**, **EGFR**, **FGFR**, **Insulin Receptor**, **JAK**, **PDGFR**, etc.
- A useful tool for the research for PTK-related diseases, such as cancer.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some protein kinase inhibitors have been approved by FDA.
- Structurally diverse, medicinally active and cell permeable.
- Rich documentation with structure, IC_{50} and summary.
- NMR and HPLC to ensure the high purity.
- All compounds are in stock and continuously updated.

Targets Included in Protein Tyrosine Kinase Compound Library:

Ack1	ALK	Bcr-Abl	BMX Kinase	Btk	c-Fms
c-Kit	c-Met/HGFR	Discoidin Domain Receptor	DYRK	EGFR	Ephrin Receptor
FAK	FGFR	FLT3	IGF-1R	Insulin Receptor	IRAK
Itk	PDGFR	PKA	Pyk2	ROS	Src
Syk	TAM Receptor	Trk Receptor	VEGFR		

Publications Citing Use of MCE Protein Tyrosine Kinase Library Compounds:

Nature. 2017 Aug 24;548(7668):471-475.
Science. 2014 Oct 3;346(6205):1255784.
Nat Med. 2016 Jul;22(7):723-6.
Cancer Cell. 2014 Feb 10;25(2):226-42.
Cancer Discov. 2016 Dec;6(12):1334-1341.
Cancer Discov. 2016 Oct;6(10):1118-1133.
Cell Metab. 2017 Apr 4;25(4):868-882.e5.
Blood. 2016 Jun 23;127(25):3237-52.
Ann Rheum Dis. 2016 May;75(5):883-90.
Leukemia. 2016 Jan;30(1):173-81.
Leukemia. 2012 Oct;26(10):2233-44.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Stem Cell Signaling Compound Library

Cat. No.: HY-L017

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Stem Cell Signaling Compound Library	HY-L017	172	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **172** small molecule inhibitors with biological activity used for stem cell regulatory and signaling pathway research.
- Targets such as **GSK-3**, **Hedgehog**, **Notch**, **JAK**, **ROCK**, **Wnt**, **γ-secretase**, **Casein Kinase**, etc.
- A powerful tool for researching the mechanism behind stem cells, regenerative therapy, drug screening based on tumor stem cells, as well as other pharmaceutical and biological applications.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some protein kinase inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- Rich documentation with structure, IC_{50}, and customer reviews.
- NMR and HPLC validated to ensure the highest purity.
- All compounds are in stock and continuously updated.

Targets Included in Stem Cell Signaling Compound Library:

Casein Kinase	ERK	Gli	GSK-3	Hedgehog	Hippo (MST)
JAK	Notch	Oct3/4	PKA	Porcupine	ROCK
sFRP-1	Smo	STAT	TGF-beta/Smad	Wnt	YAP
β-catenin	γ-secretase				

Publications Citing Use of MCE Stem Cell Signaling Library Compounds:

Nature. 2017 May 18;545(7654):355-359.
Nat Med. 2016 May;22(5):547-56.
Mol Cell. 2017 Mar 2;65(5):873-884.e8.
Hepatology. 2016 Jul;64(1):175-88.
Blood. 2016 Dec 8;128(23):2642-2654.
Blood. 2014 Dec 18;124(26):3924-31.
Blood. 2013 Nov 21;122(22):3628-31.
J Allergy Clin Immunol. 2017 Mar;139(3):987-996.
Nat Commun. 2017 Jun 12;8:15773.
J Exp Med. 2016 Dec 12;213(13):2989-3005.
Leukemia. 2012 Oct;26(10):2233-44.
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Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

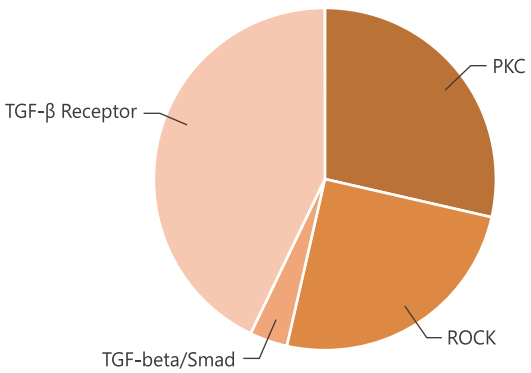
TGF-beta/Smad Compound Library

Cat. No.: HY-L018

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
TGF-beta/Smad Compound Library	HY-L018	48	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **48** TGF-beta/Smad inhibitors for high throughput screening (HTS) and high content screening (HCS).
- Targets include **PKC**, **ROCK**, **TGF-beta/Smad**, and **TGF-β Receptor**.
- A useful tool for researching TGF-beta/Smad-related regulation and diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

TGF-beta/Smad Compound Library Composition



Publications Citing Use of MCE TGF-beta/Smad Library Compounds:

J Hepatol. 2015 Oct;63(4):863-73.

Dev Cell. 2016 Oct 24;39(2):239-253.

Cancer Res. 2015 Nov 1;75(21):4538-47.

Cell Rep. 2017 Aug 29;20(9):2227-2237.

Glia. 2014 Feb;62(2):185-98.

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Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Toxins for Antibody-Drug Conjugate Research Library

Cat. No.: HY-L023

Product Name	Cat. No.	Compounds	Size (Solid)
Toxins for Antibody-Drug Conjugate Research Library	HY-L023	38	1 mg

- A unique collection of **38** ADC cytotoxins for targeted therapy research.
- Used to develop new antibody-drug conjugates targeting cancer.
- Bioactivity and safety confirmed by preclinical research and clinical trials.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Toxins for Antibody-Drug Conjugate Research Library:

ADC Cytotoxin	ADC Linker	Antibody-drug Conjugates

Publications Citing Use of MCE Antibody-Drug Conjugate Research Library Toxins:

Nat Med. 2017 Apr 7;23(4):405-408.
Nat Med. 2016 May;22(5):547-56.
Int J Biol Sci. 2015 Aug 8;11(10):1181-9.
Br J Pharmacol. 2017 Sep;174(17):2862-2879.
J Exp Clin Cancer Res. 2016 Nov 7;35(1):173.
Cell Physiol Biochem. 2017 Jun 27;42(3):965-973.
...

Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

Wnt/Hedgehog/Notch Compound Library

Cat. No.: HY-L020

Product Name	Cat. No.	Compounds	Size (Pre-dissolved in DMSO/Solid)
Wnt/Hedgehog/Notch Compound Library	HY-L020	87	30 μL/well, 50 μL/well, 100 μL/well, 250 μL/well (10 mM solution)

- A unique collection of **87** small molecule inhibitors with biological activity used for Wnt/Hedgehog/Notch pathway research and screening.
- Targets include **Notch**, **Gli**, **GSK-3**, **Hedgehog**, **Porcupine**, **sFRP-1**, **Smo**, **Wnt**, **β-catenin**, etc.
- A useful tool for the research of Wnt/Hedgehog/Notch-related regulation and diseases.
- Bioactivity and safety confirmed by preclinical research and clinical trials. Some inhibitors have been approved by FDA.
- Structurally diverse, medicinally active, and cell permeable.
- More detailed compound information with structure, IC_{50}, and brief introduction.
- NMR and HPLC validated to ensure high purity and quality.
- All compounds are in stock and continuously updated.

Targets Included in Wnt/Hedgehog/Notch Compound Library:

Casein Kinase	Gli	GSK-3	Hedgehog	Notch	Porcupine
sFRP-1	Smo	TGF-beta/Smad	Wnt	YAP	β-catenin

Publications Citing Use of MCE Wnt/Hedgehog/Notch Library Compounds:

Nature. 2017 May 18;545(7654):355-359.
Nat Med. 2016 May;22(5):547-56.
Mol Cell. 2017 Mar 2;65(5):873-884.e8.
Blood. 2016 Dec 8;128(23):2642-2654.
Nat Commun. 2017 Jun 12;8:15773.
J Exp Med. 2016 Dec 12;213(13):2989-3005.
EMBO J. 2012 May 16;31(10):2261-74.
Proc Natl Acad Sci U S A. 2016 Mar 29;113(13):E1898-906.
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Customize Library

You can select:

- √ Specific Compounds
- √ Quantities
- √ Plate Map
- √ Concentration
- √ Format (Dry/Solid or DMSO Solution)

About Us

Overview of MedChemExpress

MedChemExpress (MCE) offers a wide range of high quality research chemicals and biochemicals including novel life-science reagents, reference compounds, APIs and natural compounds for laboratory and scientific use. MCE has knowledgeable and friendly customer service and technical support teams with years of experience in the life science industry. MCE will be a competent and trustworthy partner for your research and scientific projects.

Quality

Product quality is the key to our success and we take pride in offering only the highest-grade products. Product identity, quality, purity and activity are assured by our robust quality control and assurance polices, programs and procedures. We perform thorough analytical testing - including HNMR, LC-MS and HPLC - stability testing and activity assays on our products and the results from these tests are available to clients.

Experience

Our chemists are highly experienced in molecular synthesis and the preparation of large quantities of structurally diverse and synthetically challenging molecules. We work with clients that have widely different needs and we have been very successful in meeting such needs.

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We offer:

- Structurally and synthetically diverse biologically active compounds
- Flexible order volume ranging from milligrams to kilograms scale
- On-time delivery of products

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