Compound Handling Instructions

1 What are the items in the package?

Foam holding box, packing list, blue ice box, tearing bottle (containing compound product). After opening the package, please verify the contents. If anything is missing or in error, please call 609-228-6898, and our after-sales staff will assist you.

2 How can I obtain product instructions and QA files?

A: We automatically send QA documents to your email after shipment.
B: You can download these files from the product website.
C: Contact our customer service, by calling 609-228-6898 or via email sales@MedChemExpress.com.

3 What are the items inside the tearing bottle?

The label on the tearing bottle states the product catalog number and its specifications. Inside the bottle you can find the compound tube with its related batch information, format, CAS and more on the label.

4 After receipt of the compounds, the blue ice has melted, will this lead to product deterioration?

MCE inhibitors are relatively stable at room temperatures. For some special compounds we will provide additional packaging. Recommended storage conditions and precautions regarding proper product handling are contained in the product COA.

5 What are the proper storage guidelines for the product?

Compound storage guidelines and expiration date are described in the COA. "In a cool and dry place" means seal preservation in 0-4°C. The storage conditions in the COA apply to the product in dry powder form. If the compound is formulated as a solution, it should be used as soon as possible, and until used, should be stored at -20°C. If the solution is stored at -20°C for more than one month, it should be re-examined to ensure its efficacy. Avoid repeating freezing and thawing.

6 How do I dilute the compound solution for cell assay?

DMSO is used to prepare the stock solution in most cell-based assays. The stock solution is then diluted in the culture medium to prepare a working solution. Make sure the concentration of DMSO is <0.5% to avoid poisoning the cells. A negative control in the experiment is usually the culture medium with DMSO at the same concentration.

7 How do I prepare the compound storage solution?

You can find the inhibitor storage recommendations on the product webpage. Here are some general guidelines: Aliquot the stock solution to routine usage volumes and store at -20°C or -80°C. Avoid repeated freezing and thawing. Once thawed, aliquots may be kept at 4°C for 2 weeks.

Sample	DMSO > 45 mg/mL	DMSO soluble (Saturation unknown)
	H_2O < 1 mg/mL	H_2O insoluble
	DMSO < 5 mg/mL	DMSO slightly soluble

Sample

8 How do I use these compounds during animal experiments? Ie: method of administration, dosage, solvent preparation, and administrative cycle?

MCE compounds are mainly liposoluble. If DMSO is used to prepare the stock solution and then diluted to prepare the working solution for animal experiments, it may not be possible to obtain the required doses. Instead, hydrotropy agents, such as sodium carboxymethyl cellulose (CMC-Na), Tween 80, or glycerol, are needed. If DMSO is used to prepare the stock solution, make sure the concentration of DMSO is <5% to avoid toxicity.
On the MCE product website, some compounds have protocol information available for reference. MCE does not guarantee that the method of compound administration is suitable for other similar operations. For Reference Only.

Administration volumes considered good practice (and possible maximal dose volumes):

Species	Route and volumes (mL/kg)					
	Oral	s.c.	i.p.	i.m.	i.v. (bolus)	i.v. (slow inj.)
Mouse	10 (50)	10 (40)	20 (80)	0.05 (0.1)	5	(25)
Rat	10 (40)	5 (10)	10 (20)	0.1 (0.2)	5	(20)
Rabbit	10 (15)	1 (2)	5 (20)	0.25 (0.5)	2	(10)
Dog	5 (15)	1 (2)	1 (20)	0.25 (0.5)	2.5	(5)

Conversion of different model animals based on BSA:

Species	Weight (kg)	Body Surface Area (m^2)	K_m factor
Dog	10	0.5	20
Rabbit	1.8	0.15	12
Guinea pig	0.4	0.05	8
Rat	0.15	0.025	6
Hamster	0.08	0.02	5
Mouse	0.02	0.007	3

Animal A (mg/kg) = Animal B (mg/kg) multiplied by $\frac{\text{Animal B } K_m}{\text{Animal A } K_m}$

9 Is the compound sterile?

MCE compounds DO NOT undergo aseptic processing. Compounds can be sterilized by filtration prior to use depending on specific experimental requirements. High temperature and high pressure sterilization are not recommended.

Bioactive Compound Screening Libraries (96-well)

Bioactive Compound Library
FDA-Approved Drug Library
Anti-Cancer Compound Library
Clinical Compound Library
Kinase Inhibitor Library
Anti-Infection Compound Library
Epigenetics Compound Library
GPCR/G Protein Compound Library
Histone Modification Research Compound Library
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Our ready-to-use **MCE** compound libraries consist of **over 3000** small molecules with validated biological and pharmacological activities. They are available for **HTS** and **HCS**.

- **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**.
- Provides **detailed biological and chemical information** on 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.

Publications Citing Use of MCE Libraries:

Nature. 2012 Jan 22;482(7383):116-9.
Cell. 2014 Feb 13;156(4):771-850.
Cell. 2014 Dec 18;159(7):1549-62.
Science. 2014 Oct 3;346(6205):1255784.
Nat Med. 2014 Aug;20(8):927-35.
Nat Cell Biol. 2012 Feb 5;14(3):295-303.
Nat Cell Biol. 2014 Dec;16(12):1249-56.
Nat Cell Biol. 2015 Sep;17(9):1134-44.
Cancer Discov. 2012 May;2(5):425-33.
Cell Metab. 2012 Mar 7;15(3):382-94.
Gastroenterology. 2015 Feb;148(2):392-402.e13.
... See more citations on **www.MedChemExpress.com**

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