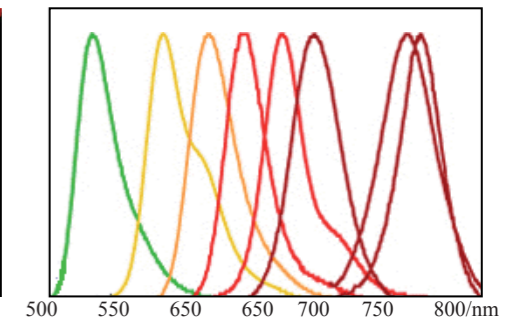
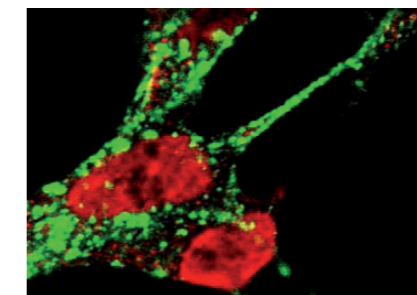


## PEGFluor™ Fluorescent PEG Labeling and Detection Products

PEGFluor™ fluorescent PEG products from NANOCS aim to providing better fluorescent molecular tools for our customers. Besides their superior fluorescent properties, e.g. high brightness, super photo-stability, these fluorophores are designed to simplify your fluorescent labeling and detection process. PEGFluor™ fluorophores can be used directly in your aqueous working buffers without need adding any organic solvents. Elimination of organic solvents not only simplifies your labeling and detection process, it also provides additional protection of your molecules from damaging caused by some harsh organic solvents. In addition, our PEGFluor™ fluorescent PEG products offer diversified chemically reactive and/or biologically active moieties that can be used directly for labeling, imaging and detecting of various molecules and particles.



### Competitive advantages of PEGFluor™ fluorescent PEG Products:

- ❖ **Excellent water solubility:** No need for any organic solvents, simply dissolve in your working buffer. No worry about toxic effect of organic solvents to your molecule.
- ❖ **Simpler working process:** Designed to simplify your labeling and detection process, just mix your molecules with PEGfluor™ fluorophores and they are ready to go.
- ❖ **Brighter and more photo-stable:** Higher fluorescent intensity and more stable against photo bleaching derived from our patented technologies.
- ❖ **Simply more choices:** Our PEG fluorophores available from UV region to near infrared area. Hundreds of fluorophores with diversified chemical reactive and bioactive moieties available.

### Selected Products

Cat#	Description	Ex/Em/nm	Unit Size
PG2-FCNS-2k,3k,5k,10k	Fluorescein PEG NHS, MW 2000, 3400, 5000, 10 kD	490/515	50 mg
PG2-FCML-2k, 3k, 5k,10k	Fluorescein PEG Maleimide, MW 2000, 3400, 5000, 10 kD	490/515	50 mg
PG2-AMFC-2k,3k,5k,10k	Fluorescein PEG amine, MW 2000, 3400, 5000, 10 kD	490/515	50 mg
PG2-FCTH-2k,3k,5k,10k	Fluorescein PEG thiol, MW 2000, 3400, 5000, 10 kD	490/515	50 mg
PG2-AZFC-2k,3k,5k,10k	Fluorescein PEG azide, MW 2000, 3400, 5000, 10 kD	490/515	50 mg
PG2-NSS3-2k,3k,5k,10k	Cy3 PEG NHS, MW 2000, 3400, 5000, 10 kD	554/570	5 mg
PG2-MLS3-2k, 3k, 5k,10k	Cy3 PEG Maleimide, MW 2000, 3400, 5000, 10kD	554/570	5 mg
PG2-AMS3-2k,3k,5k,10k	Cy3 PEG amine, MW 2000, 3400, 5000, 10 kD	554/570	5 mg
PG2-S3TH-2k,3k,5k,10k	Cy3 PEG thiol, MW 2000, 3400, 5000, 10 kD	554/570	5 mg
PG2-NSS5-2k, 3k, 5k,10k	Cy5 PEG NHS, MW 2000, 3400, 5000, 10 kD	650/670	5 mg
PG2-MLS5-2k, 3k, 5k,10k	Cy5 PEG Maleimide, MW 2000, 3400, 5000, 10 kD	650/670	5 mg
PG2-AMS5-2k, 3k, 5k,10k	Cy5 PEG amine, MW 2000, 3400, 5000, 10 kD	650/670	5 mg
PG2-S5TH-2k,3k,5k,10k	Cy5 PEG Thiol, MW 2000, 3400, 5000, 10 kD	650/670	5 mg
PG2-NSS5-2k,3k,5k,10k	Cy5.5 PEG NHS, MW 2000, 3400, 5000, 10 kD	650/670	5 mg



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**Area Contabilità , Fatturazione.**  
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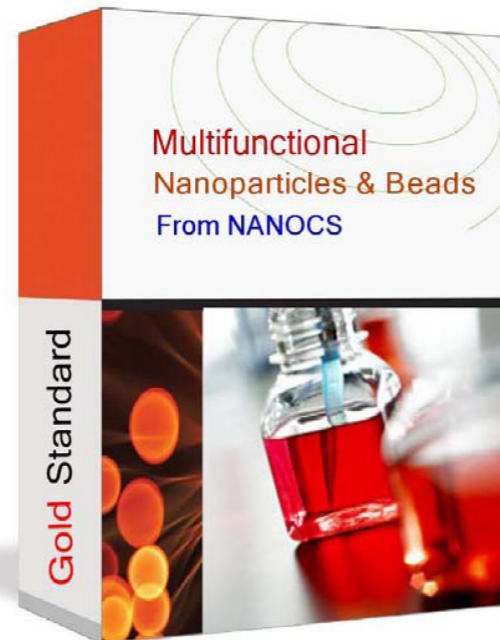
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**Informazioni tecniche, Preventivi.**  
[support@dbaitalia.it](mailto:support@dbaitalia.it)



## Nanoparticles from NANOCS: Gold Standard



- Spherical Gold Nanoparticles: Highly uniform, monodispersed nanoparticles with size from 2 nm to 250 nm. Various functionalities and conjugates available.
- Surface Functional Nanoparticles: Unique surface coating renders high stability, diverse chemical reactivity.
- Nanoparticle Bioconjugates: Antibodies, proteins, peptides, nucleotides and many other ligands functionalized nanoparticles available.
- Gold, silver, silica, magnetic and polymeric particles and beads for diagnostic, assay development and drug delivery applications.

Particles with micron and nanometer size have been used widely for biomolecule separation, cellular and molecular detection, as well as drug delivery. More recently, multifunctional nanoparticles have been developed to provide exceptional sensitivity and specificity for multiplexing biomolecule targeting and detection. Fluorescent labeled nanoparticles, for example, have been successfully used both *in-vivo* and *in-vitro* for targeted imaging. Through controlled modification of particle core and surfaces, particles with specific properties can be engineered to provide multiple functions for bio-species detection, extraction, tracking or targeting.

To address increasingly demanded biomedical needs for specialized particles, Nanocs has developed a number of biocompatible, multifunctional nano/micro particle systems tailored for specific chemical reaction. With their well defined surface chemistry, these particles can be easily used to attach specific bioactive moieties, such as peptides, antibodies, nucleotides and small molecules. Besides their superior optical, magnetic and chemical properties, these particles can be easily tailored for many different applications.



### IMAGING & DIAGNOSTICS

Highly uniform, multifunctional Gold, silver and fluorescent nanoparticles for rapid diagnostic and imaging applications.

### DRUG DELIVERY

Biocompatible, surface functionalized nanoparticles for molecule imaging, encapsulation and target drug delivery.

### BIOMOLECULE SEPARATION

Multifunctional magnetic and polysaccharide nanoparticles and microbeads for biomolecule immobilization and separation. High loading efficiency, easy working process.

### TECHNICAL SUPPORT

Customer particle synthesis, ligand conjugation and molecule encapsulation.

### FAST DELIVERY

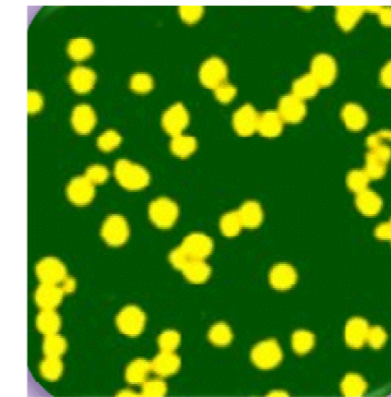
Experienced experts make the particle work more rapid than any other companies.

### TURNKEY SOLUTIONS

Just send us your request, we will provide solutions for you. Satisfaction guaranteed.

For more information on any of our products or services please visit us on the Web at: [www.nanocs.net](http://www.nanocs.net)

## Service Features and Benefits



As a leader in the nanotechnology, Nanocs has dedicated to develop multifunctional micro and nanoparticle systems for numerous biomedical applications. With rich experience in various particle synthesis and modification, we can offer value added particle conjugation and modification services for your needs in the development of diagnostics, bioassays and drug formulations. No matter which fields you are working, we are here for help.

During past decade, Nanocs has developed a number of functionalized biocompatible nano and micro particle systems that can be used for biomolecule separation, highly sensitive molecule target identification, *in-vivo* and *in-vitro* molecular imaging as well as targeted drug delivery. Besides those routine particle products, Nanocs is glad to assist you for your specific particle needs.

## Competitive Advantages

- Well controlled particles with defined size and surface properties for different applications.
- Patented surface modification and cross-linking technology and reagents.
- Highly experienced in particle surface modification and bioconjugation.
- Track record for thousands customer projects delivered world widely.



### SERVICES AVAILABLE

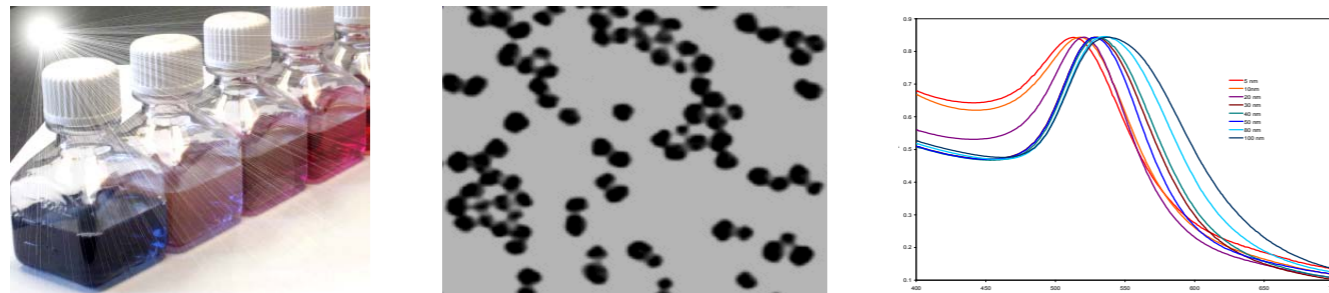
- Micro/Nano Particle Synthesis
- Particle Functionalization
- Bioconjugation
- Molecule Encapsulation
- Bioassay Development
- Satisfaction Guaranteed



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Fax 1.917.591.2212  
[www.nanocs.net](http://www.nanocs.net)

## NanoBright™ Gold Nanoparticles and Nanorods

NanoBright™ Gold Nanoparticles and Nanorods provided by Nanocs now extend your capability to work gold nanoparticles from red region (515 nm) to near infrared (800 nm) and far-red (1200 nm) region. We also offer a variety of surface functionalized gold nanoparticles and nanorods with different plasmonic absorption. These surface functionalized gold nanoparticles can be used for biomolecule labeling, bioassay development and even for *in-vivo* molecular imaging. Nanocs gold nanoparticles were synthesized with green chemical methods, purified and functionalized by well controlled methods to ensure their high purity and uniformity.



### NanoBright™ Gold Nanoparticles and Nanorods Specifications:

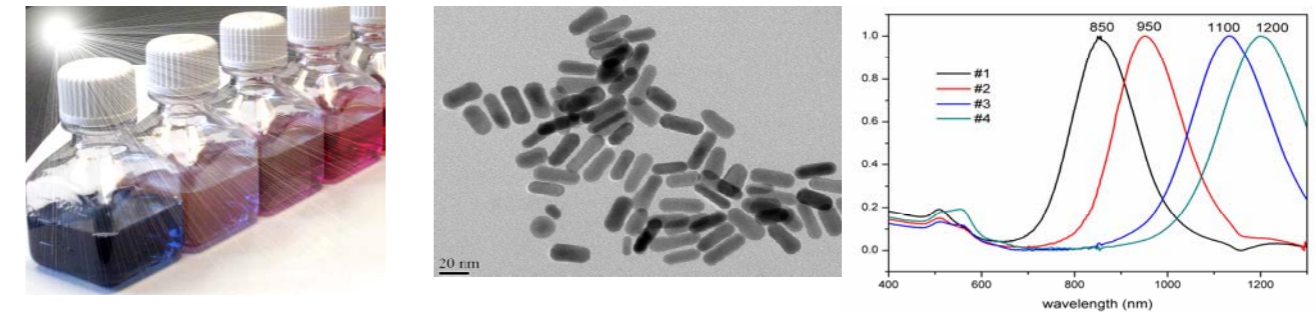
- ❖ **Appearance:** Red, blue, brownish/dark brown depends on plasmonic absorption.
- ❖ **Size:** Spherical gold nanoparticles with diameter from 2 nm to 250 nm. Gold Nanorods with 5~10 nm in diameter, 20~80 nm in length.
- ❖ **Plasmonic peak:** 515 nm to 1200 nm as shown on label.
- ❖ **Particle concentration:**  $1 \times 10^{12}$  to  $1 \times 10^{14}$  particles/rods/mL solution.

### Selected Products

Cat#	Description	Unit Size /mL	Cat#	Description	Unit Size /mL
GP01-2-20	Gold Nanoparticles, 2 nm	20	GNA3,5,10,15,20,	Gold Nanoparticles, streptavidin coated, 3~80 nm	1
GP01-3-20	Gold Nanoparticles, 3 nm	20	30, 40, 50, 80		
GP01-5-20	Gold Nanoparticles, 5 nm	20	GNB3,5,10,15,20,	Gold Nanoparticles, biotin coated, 3~80 nm	1
GP01-10-20	Gold Nanoparticles, 10 nm	20	30,40,50, 80		
GP01-15-20	Gold Nanoparticles, 15 nm	20	GPX-AM-1	Gold Nanoparticles, amine functional, 3~80 nm	1
GP01-20-20	Gold Nanoparticles, 20 nm	20	GPX-CA-1	Gold Nanoparticles, carboxyl functional, 3~80 nm	1
GP01-30-20	Gold Nanoparticles, 30 nm	20	GPX-PrG-1	Gold Nanoparticles, protein G Coated, 3~80 nm	1
GP01-40-20	Gold Nanoparticles, 40 nm	20	GPX-BS-1	Gold Nanoparticles, BSA coated, 3~80 nm	1
GP01-50-20	Gold Nanoparticles, 50 nm	20	GPX-IG-1	Gold Nanoparticles, IgG coated, 3~80 nm	1
GP01-60-20	Gold Nanoparticles, 60 nm	20	GPX-CON-1	Gold Nanoparticles, concanavalin A coated, 3~80nm	1
GP01-80-20	Gold Nanoparticles, 80 nm	20	GPX-AZ-1	Gold Nanoparticles, azide functional, 3~80 nm	1
GP01-100-20	Gold Nanoparticles, 100 nm	20			
GP01-150-20	Gold Nanoparticles, 150 nm	20			
GP01-200-20	Gold Nanoparticles, 200 nm	20			
GP01-250-20	Gold Nanoparticles, 250 nm	20			
GPX-PG-20	Gold Nanoparticles, PEG coated, 5, 10, 15, 20, 30, 40, 50 nm	20			
GPX-DX-20	Gold Nanoparticles, Dextran coated, 5, 10,15,20,30,40,50 nm	20			

## NanoBright™ Gold Nanoparticles and Nanorods

NanoBright™ Gold Nanoparticles and Nanorods provided by NANOCS now extend your capability to work gold nanoparticles from visible region (515 nm) to near infrared (800 nm) and far-red (1200 nm) region. We also offer a variety of surface functionalized gold nanoparticles and nanorods with different plasmonic absorption. These surface functionalized gold nanoparticles can be used for biomolecule labeling, bioassay development and even for *in-vivo* molecular imaging. Nanocs gold nanoparticles were synthesized with green chemical method, purified and functionalized by well controlled methods to ensure their high purity, uniformity and biocompatibility.



### NanoBright™ Gold Nanoparticles and Nanorods Specifications:

- ❖ **Appearance:** Red, blue, brownish/dark brown depends on plasmonic absorption.
- ❖ **Size:** Spherical gold nanoparticles with diameter from 2 nm to 250 nm. Gold Nanorods with 5~10 nm in diameter, 20~80 nm in length.
- ❖ **Plasmonic peak:** 515 nm to 1200 nm as shown on label.
- ❖ **Particle concentration:**  $1 \times 10^{12}$  to  $1 \times 10^{14}$  particles/rods/mL solution.

### Selected Products

Cat#	Description	SPR Peak	Unit Size
GR550	Gold Nanorods, aqueous solution, 0.1 mM	550 nm	20 mL
GR600	Gold Nanorods, aqueous solution, 0.1 mM	600 nm	20 mL
GR650	Gold Nanorods, aqueous solution, 0.1 mM	650 nm	20 mL
GR750	Gold Nanorods, aqueous solution, 0.1 mM	750 nm	20 mL
GR800	Gold Nanorods, aqueous solution, 0.1 mM	800 nm	20 mL
GR850	Gold Nanorods, aqueous solution, 0.1 mM	850 nm	20 mL
GR950	Gold Nanorods, aqueous solution, 0.1 mM	950 nm	20 mL
GR1100	Gold Nanorods, aqueous solution, 0.1 mM	1100 nm	20 mL
GR1200	Gold Nanorods, aqueous solution, 0.1 mM	1200 nm	20 mL

For more detailed information, check [www.nanocs.net](http://www.nanocs.net)

### How to Order

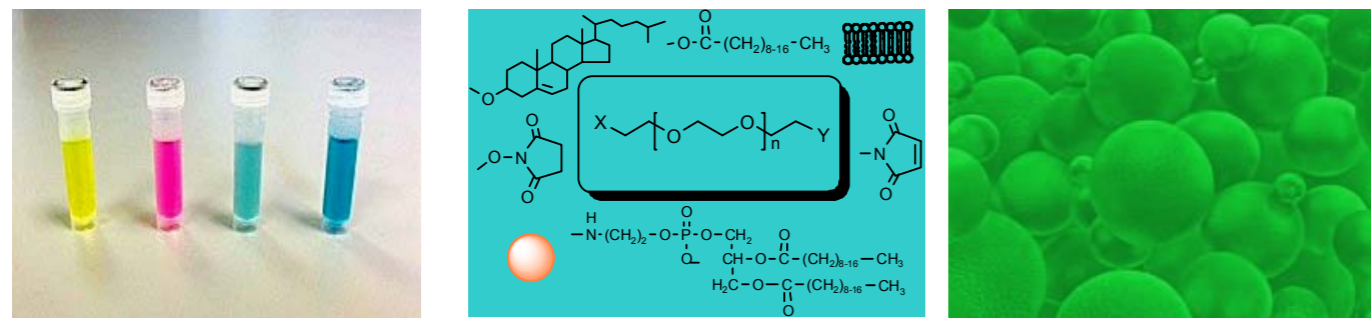
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Order by phone: 1.800.388.4221  
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## LipoPEG™ Lipid & Phospholipid PEG Derivatives

PEG modified lipid and phospholipid products have numerous applications in drug delivery, molecule encapsulation, gene transfection or molecule detection. NANOCS now provides more lipid & phospholipid PEG derivatives than any other suppliers in the world. Our LipoPEG™ covers from many regular pegylated lipids/phospholipids to numerous multifunctional lipid PEGs that can be used for liposome formation, biomolecule conjugation, fluorescent labeling and detection. Over the past several years, Nanocs research team has developed a number of lipid and phospholipid PEG reagents that provide rich functionalities and allow for many different biomedical applications.



### Competitive advantages of LipoPEG™ Reagents:

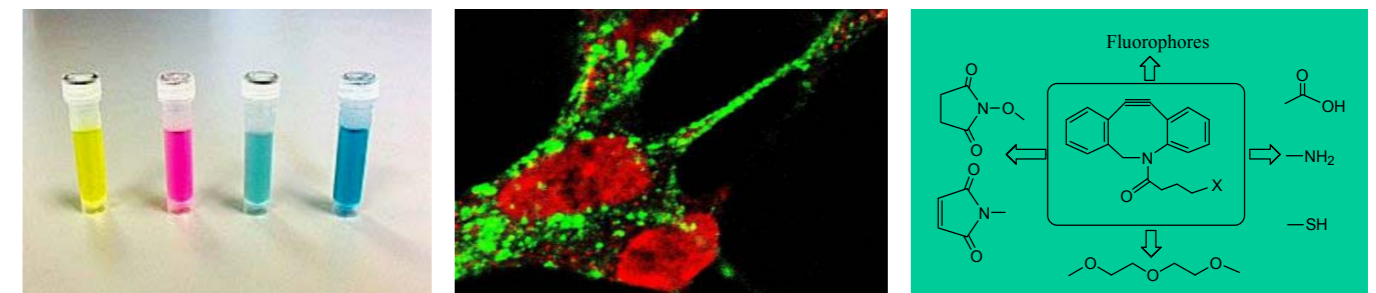
- ❖ **Multiple functionalities:** With multiple functionalities from our lipid PEG, you can easily choose any PEG lipids from our LipoPEG™ tool box to work with your molecules. Regardless whether you are labeling or encapsulating small molecules, proteins, antibodies or particles.
- ❖ **Simpler working process:** Designed to simplify your labeling and encapsulation process, our lipid PEG products are soluble in aqueous buffer. You can simply mix your molecules or particles with LipoPEG™ lipids and they will connect to your target easily.
- ❖ **Simply more choices:** Our Lipid PEG reagents available from monofunctional PEG lipids to multifunctional reactive lipids PEGs. Hundreds of modified PEG and phospholipid PEGs with diversified chemical reactive and bioactive moieties available. Those products are finely tailored for different applications such as targeted drug delivery, *in-vitro* and *in-vivo* molecular detection.

### Selected Products

Cat#	Description	Unit Size	Cat#	Description	Unit Size
PG1-DS-	mPEG-DSE, MW 2000, 5000, 10	100 mg,	PG2-CSML-	Cholesterol PEG maleimide, MW	100 mg
2k,5k,10k,20k	kDa, 20 kDa	500 mg	2000, 3400, 5000, 10 kDa		
PG2-DSNS-	DSPE-PEG-NHS, MW 2000,3400,	100 mg,	PG2-CSFC-	Cholesterol PEG Fluorescein,	50 mg
2k,3k,5k,10k	5000, 10 kDa	500mg	2k,3k,5k,10k	MW 2000, 3400, 5000, 10 kDa	
PG2-DSML-	DSPE-PEG-Maleimide, MW 2000,	100 mg,	PG2-CSFA-	Cholesterol PEG folate, MW	50 mg
2k,3k,5k,10k	3400, 5000, 10 kDa	500 mg	2k,3k,5k,10k	2000, 3400, 5000, 10 kDa	
PG2-AMDS-	DSPE-PEG-amine, MW 2000, 3400,	100 mg,	PG2-CSNS-	Cholesterol PEG NHS, MW 2000,	100 mg
2k,3k,5k,10k	5000, 10 kDa	500 mg	2k,3k,5k,10k	3400, 5000, 10 kDa	
PG2-CADS-	DSPE PEG acid, MW 2000, 3400,	100 mg,	PG2-CSDB-	Cholesterol PEG DBCO, MW	25 mg
2k,3k,5k,10k	5000, 10 kDa	500 mg	2000, 3400, 5000, 10 kDa		
PG2-DSFC-	DSPE PEG fluorescein, MW 2000,	50 mg	PG2-DMML-	DMPE PEG Maleimide, MW	100 mg
2k,3k,5k,10k	3400, 5000, 10 kDa		2k,3k,5k,10k	2000, 3400, 5000, 10 kDa	
PG2-DSFA-	DSPE PEG Folate, MW 2000, 3400,	50 mg	PG2-DPML-	DPPE PEG Maleimide, MW 2000,	100 mg
2k,3k,5k,10k	5000, 10 kDa		2k,3k,5k,10k	3400, 500, 10 kDa	
PG2-DBDS-	DSPE PEG DBCO, MW 2000, 3400,	25 mg	PG2-MAML-	Myristic acid PEG Maleimide,	100 mg
2k,3k,5k,10k	5000, 10 kDa		2k,3k,5k,10k	MW 2000, 3400, 5000, 10 kDa	
PG2-BND-	DSPE PEG Biotin, MW 2000, 3400,	100 mg	PG2-SANS-	Stearic acid PEG NHS, MW	100 mg
2k,3k,5k,10k	5000, 10 kDa		2k,3k,5k,10k	2000, 3400, 5000, 10 kDa	

## SunLight™ Click Chemistry Reagents and Kits

Click chemistry allows efficient and specific bioorthogonal chemical reactions to proceed in aqueous solution. Over the past several years, Nanocs research team has developed a number of Click Chemistry reagents that provide rich functionalities and allow for many different bioconjugation applications. In particular, our PEG modified cyclooctyne derivatives allow rapid labeling of proteins, enzymes, peptides, nucleotides, particles and many other biomaterials easily and efficiently. Cyclooctyne conjugated biomolecules react easily with azide labeled counter parts, thus offer a very useful tool for biomedical applications.



### Advantages of Nanocs Click Reagents:

- ❖ **Target tailored functionalities:** With multiple functionalities, you can easily choose to label your proteins, peptides, carbohydrates, nucleotides and many other materials.
- ❖ **Simpler working process:** Designed to simplify your labeling process, just mix your molecules with our Click Reagents and they are ready to go.
- ❖ **Simply more choices:** Our Click Reagents available from single small molecules to pegylated version. Hundreds of modified and non-modified molecules with diversified chemical reactive and bioactive moieties available.

### Selected Products

Cat#	Description	Unit Size /mg	Cat#	Description	Unit Size /mg
DB-NS-1	DBCO-NHS	25, 100	AZ-NS-2C	Azide-(CH <sub>2</sub> ) <sub>2</sub> -NHS	25, 100
DB-NS-EG4	DBCO-EG4-NHS	5, 25	AZ-NS-3C	Azide-(CH <sub>2</sub> ) <sub>3</sub> -NHS	5, 25
PG2-DBNS-2k	DBCO-PEG2000-NHS	5, 25	AZ-NS-4C	Azide-(CH <sub>2</sub> ) <sub>4</sub> -NHS	5, 25
DB-ML-EG4	DBCO-EG4-Maleimide	5, 25	PG2-AMDB-2k	DBCO-PEG2000-FITC	5, 25
PG2-DBML-2k	DBCO-PEG2000-Maleimide	5, 25	PG2-DBS3-2k	DBCO-PEG2000-Cy3	5, 25
DB-CA-1	DBCO-COOH	25, 100	PG2-DBS5-2k	DBCO-PEG2000-Cy5	5, 25
DB-CA-EG4	DBCO-EG4-COOH	5, 25	PG2-DBS55-2k	DBCO-PEG2000-Cy5.5	5, 25
PG2-CADB-2k	DBCO-PEG2000-COOH	25, 100			
DB-AM-EG4	DBCO-EG4-NH <sub>2</sub>	5, 25	AZ-NS-2C	Azide-(CH <sub>2</sub> ) <sub>2</sub> -NHS	25, 100
PG2-AMDB-2k	DBCO-PEG2000-NH <sub>2</sub>	25, 100	AZ-NS-3C	Azide-(CH <sub>2</sub> ) <sub>3</sub> -NHS	5, 25
PG2-DBFC-2k	DBCO-PEG2000-FITC	5, 25	AZ-NS-4C	Azide-(CH <sub>2</sub> ) <sub>4</sub> -NHS	5, 25
PG2-DBRB-2k	DBCO-PEG2000-Rhodamine B	5, 25	PG2-AMDB-2k	DBCO-PEG2000-Maleimide	25, 100
PG2-DBS3-2k	DBCO-PEG2000-Cy3	5, 25	AZ-CA-C2	Azide-(CH <sub>2</sub> ) <sub>2</sub> -COOH	25, 100
PG2-DBS5-2k	DBCO-PEG2000-Cy5	5, 25	AZ-CA-C3	Azide-(CH <sub>2</sub> ) <sub>3</sub> -COOH	5, 25
PG2-DBS55-2k	DBCO-PEG2000-Cy5.5	5, 25	AZ-CA-C4	Azide-(CH <sub>2</sub> ) <sub>4</sub> -COOH	25, 100
			AZ-AM-EG3	Azide-EG3-NH <sub>2</sub>	5, 25
			AZ-AM-EG4	Azide-EG4-NH <sub>2</sub>	5, 25
			PG2-AZNS-2k	Azide-PEG2000-NHS	25, 100
			PG2-AZML-2k	Azide-PEG2000-Maleimide	25, 100
			PG2-AZS3-2k	Azide-PEG2000-Cy3	5, 25
			PG2-AZS5-2k	Azide-PEG2000-Cy5	5, 25
			PG2-AZS55-2k	Azide-PEG2000-Cy5.5	5, 25