Tel: 1(800)388-4221 Fax: 1(917)591-2212 Email: info@nanocs.com

TECHNICAL DATA SHEET

Azide PEG Maleimide, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

Catalog Numbers: PG2-AZML-400, 600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Azido PEG Maleimide, Maleimide PEG Azide

Description:

Azide PEG maleimide (N₃-PEG-Mal), also called Azido PEG Maleimide, is one of Nanocs' thiol reactive "Click Chemistry" PEG crosslinking reagents. Maleimide reacts rapidly with free sulfhydryl/thiol group at pH 6.5-7.5 to form a stable, non-cleavable thioether bond. Reaction of maleimide and thiol enables fast and efficient conjugation of azide functional PEG to targeted molecules or materials. Resulted azide group can react with linear alkyne group catalyzed by copper ions. It can also react directly with strained alkyne such as DBCO without need any catalyst. PEG linker between azide and maleimide offers better water solubility, less steric hindrance and enhanced stability. Nanocs Pegylated Azide Maleimide is readily soluble in water and all reactions can be carried out in aqueous buffer without adding any organic solvents.

Product Structure:

$$\begin{array}{c} O \\ O \\ II \\ N-CH_2CH_2-C-NH-(OCH_2CH_2)_{\overline{\Pi}}-CH_2CH_2-N_3 \end{array}$$

Product Specifications:

Composition: Azide PEG Maleimide.

Appearance: White/off-white solid or semi-

liauid.

Solubility: 10 mg/mL, clear in water,

chloroform, or DMSO.

Reactive group: Maleimide.

Reactive to: Sulfhydryl/thiol.

Handling and Use:

For best use, **Azido PEG Maleimide** should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit **www.nanocs.net**.

Storage Conditions:

Maleimide PEG Azide should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. Re-test material after 6 months.

This product is for research use only and is not intended for use in humans or for diagnostic use.

Related Products:

Azide PEG NHS Azide PEG COOH Azide PEG amine Azide PEG Biotin

Azide PEG Thiol

To Order:

Order online: www.nanocs.net

Order by Email: sales@nanocs.com

Order by phone: 1(800)388-4221; 1(888)

908-8803

For more information, visit www.nanocs.net

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.