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

TECHNICAL DATA SHEET

Thiol PEG acid, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

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

Synonym: HS PEG COOH, Thiol PEG Carboxylic acid, Sulfhydryl PEG acid

Description:

Thiol PEG acid (HS-PEG-COOH) is one of Nanocs' reactive thiol PEG derivatives that have a terminal carboxylic group. Carboxylic groups can react with amine or hydroxyl groups to form a stable amide bond or a labile ester bond. Reactions of carboxylic group allow the conversion of amine or hydroxyl groups to free thiols with a linear PEG linker. Resulted thiol groups can be used to modify gold nanoparticle surface or participate in other pegylation reactions. PEG linker between thiol and carboxylic group offers good water solubility, flexible linker distance and higher stability.

Product Structure:

HS-(CH₂CH₂O)n-CH₂CH₂-COOH

Product Specifications:

• Composition: Thiol PEG acid.

Appearance: White/off-white solid, semi-solid

depends on molecular weight.

Solubility: 10 mg/mL, clear in water,

ethanol, chloroform, DMSO.

• Reactive groups: Sulfhydryl, carboxyl.

Handling and Use:

Thiol PEG acid is sensitive to moisture, air and temperature. For best use, material 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:

HS PEG COOH should be stored at -20 °C. Desiccate. Protect from light. Materials may be handled under inert gas for best stability. Re-test material after 12 months.

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

Related Products:

Thiol PEG Maleimide Thiol PEG FITC
Thiol PEG NH2 Thiol PEG Biotin
Thiol PEG NHS Thiol PEG Azide

Thiol PEG Folate

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.