

Product Information

Thiol/Carboxylic acid PEG reagent, Thiol-PEG4-acid, Purity ≥95%

Cat. No.: X26-09-ZQ380

Size: 1 g

CAS Number: 749247-06-1

PubChem CID: 22731905

Synonym: Thiol-PEG4-carboxylic acid; Mercapto-PEG4-acid; Thiol-polyethylene glycol4-acid; Mercapto-tetraethylene glycol-acid

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

Product Information

Description	This short heterobifunctional reagent pairs a free sulfhydryl (thiol) group with a carboxylic acid terminal <i>via</i> a tetraethylene glycol (PEG4) spacer. The free thiol reacts with maleimides, haloacetamides, or gold surfaces. The carboxylic acid group permits amidation reactions with primary amines. The PEG4 chain delivers good polarity and compact spatial reach.
Molecular Weight	282.4
Molecular Formula	C ₁₁ H ₂₂ O ₆ S
Functional Group 1	Thiol
Functional Group 2	Carboxylic acid
Reactive Group 1	Maleimide
Reactive Group 2	Amine
Reactive Group 3	Alcohol
IUPAC Name	3-[2-[2-[2-(2-sulfanylethoxy)ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C11H22O6S/c12-11(13)1-2-14-3-4-15-5-6-16-7-8-17-9-10-18/h18H,1-10H2,(H,12,13)
InChI Key	ORLGUGSEJFKLED-UHFFFAOYSA-N
Canonical SMILES	C(COCCOCCOCCOCCS)C(=O)O
Purity	≥95%
Applications	This product can be used for thiol-to-amine crosslinking, functionalizing amino-carbohydrates, and modifying gold surfaces with water-soluble linkers.
Storage	Store at -20°C.