

Product Information

Thioacetate/Carboxylic acid PEG reagent, S-acetyl-PEG3-acid, Purity ≥95%

Cat. No.: X26-09-ZQ375

Size: 250 mg; 500 mg; 1 g

CAS Number: 1421933-33-6

PubChem CID: 77078527

Synonym: S-Acetyl-PEG3-carboxylic acid; Thioacetate-PEG3-acid; S-Acetyl-polyethylene glycol3-acid; S-Acetyl-triethylene glycol-acid

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

Product Information

Description	This compact building block couples a protected thiol (S-acetyl) group to a carboxylic acid terminal via a triethylene glycol (PEG3) spacer. The S-acetyl group can be selectively deprotected to yield a free sulfhydryl group. The carboxylic acid terminal undergoes efficient amide coupling with primary amines. The short PEG3 chain maintains adequate polarity.
Molecular Weight	280.3
Molecular Formula	C ₁₁ H ₂₀ O ₆ S
Functional Group 1	Thioacetate
Functional Group 2	Carboxylic acid
Reactive Group 1	Amine
Reactive Group 2	Alcohol
Reactive Group 3	Hydrazide
IUPAC Name	3-[2-[2-(2-acetylsulfanylethoxy)ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C11H20O6S/c1-10(12)18-9-8-17-7-6-16-5-4-15-3-2-11(13)14/h2-9H2,1H3,(H,13,14)
InChI Key	HJNQYRKIZPTUQT-UHFFFAOYSA-N
Canonical SMILES	CC(=O)SCCOCCOCCOCCCC(=O)O
Purity	≥95%
Solubility	The compound is soluble in water, DMSO, DCM, and DMF.
Applications	This product can be used to introduce protected sulfhydryl handles onto amine-functionalized carbohydrates, synthesize compact crosslinkers, and assemble probes.
Storage	Store at -20°C.