

Product Information

Aminooxy/Thioacetate PEG reagent, *t*-Boc-aminooxy-PEG3-S-Ac, Purity ≥95%

Cat. No.: X26-09-ZQ411

Size: 250 mg; 500 mg; 1 g

CAS Number: 2055040-71-4

PubChem CID: 119058277

Synonym: *t*-Boc-aminooxy-PEG3-S-acetyl; *tert*-Butyloxycarbonyl-aminooxy-PEG3-thioacetate; *t*-Boc-aminooxy-polyethylene glycol3-S-acetate; Tert-boc-aminooxy-triethylene glycol-thioacetate

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

Product Information

Description	This product is a triethylene glycol derivative protected with a <i>tert</i> -butyloxycarbonyl (<i>t</i> -Boc) aminooxy group and an S-acetyl (S-Ac) ester group. Upon deprotection, the aminooxy group reacts with aldehydes or ketones to form stable oxime linkages, while the deprotected thiol reacts with sulfhydryl-reactive agents. The compound serves as a dual-protected heterobifunctional building block.
Molecular Weight	367.5
Molecular Formula	C ₁₅ H ₂₉ NO ₇ S
Functional Group 1	Aminooxy
Functional Group 2	Thioacetate
Reactive Group 1	Acid
IUPAC Name	S-[2-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]oxyethoxy]ethoxy]ethoxy]ethyl] ethanethioate
InChI	InChI=1S/C15H29NO7S/c1-13(17)24-12-11-21-8-7-19-5-6-20-9-10-22-16-14(18)23-15(2,3)4/h5-12H 2,1-4H3,(H,16,18)
InChI Key	KINHJWISTPYJKQ-UHFFFAOYSA-N
Canonical SMILES	CC(=O)SCCOCCOCCOCCONC(=O)OC(C)(C)C
Purity	≥95%
Applications	This product can be used for orthogonal functionalization of carbonyl-containing surfaces, synthesis of dual-reactive crosslinkers, and modular assembly of complex biomimetic architectures in chemical synthesis research.
Storage	Store at -20°C.