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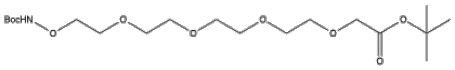
Product Information

Aminooxy/Bu PEG reagent, *t*-Boc-aminooxy-PEG4-CH_2CO_2-*t*-Bu, Purity 97%



Cat. No.: X24-03-YW0029

Size: 500 mg

CAS Number: 2062663-63-0

PubChem CID: 126480495

Synonym: 2062663-63-0; *t*-Boc-aminooxy-PEG4-CH_2CO_2-*t*-Bu; Boc-aminooxy-PEG4-CH_2-Boc

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

Product Information

Description	*t*-Boc-aminooxy-PEG4-CH2CO2-*t*-Bu is a PEG linker featuring a t-Boc protected aminooxy group and a t-Bu carboxylic acid group. The protected aminooxy can be deprotected under mild acidic conditions for coupling with aldehyde or ketone groups, forming stable oxime linkages. The t-butyl protected carboxyl group can be deprotected under acidic conditions. The hydrophilic PEG linker enhances water solubility.
Molecular Weight	423.5
Molecular Formula	$C_{19}H_{37}NO_9$
Functional Group 1	Aminooxy
Functional Group 2	Bu
Functional Group 3	None
Reactive Group 1	Carbonyl
IUPAC Name	*Tert*-butyl 2-[2-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]oxyethoxy]ethoxy]ethoxy]ethoxy]acetate
InChI	InChI=1S/C19H37NO9/c1-18(2,3)28-16(21)15-26-12-11-24-8-7-23-9-10-25-13-14-27-20-17(22)29-19(4,5)6/h7-15H2,1-6H3,(H,20,22)
InChI Key	OJGYJBJFYUIXNY-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)COCCOCCOCCOCCONC(=O)OC(C)(C)C
Form	Reported
Purity	97%
Identity	Confirmed by NMR.
Applications	*t*-Boc-aminooxy-PEG4-CH_2CO_2-*t*-Bu is essential in bioconjugation, enabling specific coupling reactions with aldehyde or ketone groups. After deprotection, the aminooxy group forms stable

	oxime bonds, allowing for precise modification of biomolecules. Its hydrophilic PEG linker ensures compatibility with aqueous environments, making it suitable for various applications such as protein labeling, drug delivery, and biomaterials development.
Storage	Store at -20°C