

Product Information

Mesyl/*t*-Boc-protected amine PEG reagent, *t*-Boc-*N*-amido-PEG5-Ms, Purity 98%

Cat. No.: X24-10-WXX383

Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 2128735-28-2

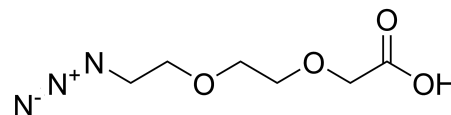
PubChem CID: 129627643

Synonym: *t*-Boc-*N*-amido-PEG5-Ms; 2128735-28-2; Boc-*N*-amido-PEG5-Ms; 2-[2-[2-[

2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethyl

methanesulfonate; SCHEMBL21070189

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



Product Information

Description	<i>t</i> -Boc- <i>N</i> -amido-PEG5-Ms is a reagent grade PEG linker with a mesyl group and a Boc protecting group. Under acidic conditions, the <i>t</i> -Boc group is removed to produce a reactive free amine. The mesyl group is used for nucleophilic substitution reactions. The PEG spacer increases water solubility.
Molecular Weight	415.5
Molecular Formula	C ₁₆ H ₃₃ NO ₉ S
Functional Group 1	Mesyl
Functional Group 2	<i>t</i> -Boc-protected amine
Functional Group 3	None
Reactive Group 1	Acid
IUPAC Name	2-[2-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethyl methanesulfonate
InChI	InChI=1S/C16H33NO9S/c1-16(2,3)26-15(18)17-5-6-21-7-8-22-9-10-23-11-12-24-13-14-25-27(4,19)20/h5-14H2,1-4H3,(H,17,18)
InChI Key	XAHYLBKEJWWORN-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCOCCOS(=O)(=O)C
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	<i>t</i> -Boc- <i>N</i> -amido-PEG5-Ms is designed for selective modification of biomolecules, providing protection

during synthesis while allowing subsequent reactions to occur. The structure facilitates the molecular biology and bioconjugation research.

Storage	Store at -20°C.
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