

Product Information

Bromoacetamido PEG reagent, Bromoacetamido-PEG3-*t*-butyl ester, Purity 98%

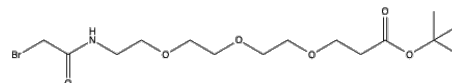
Cat. No.: X24-03-YW0206

Size: 100 mg; 250 mg; 500 mg

CAS Number: 1807537-33-2

PubChem CID: 91757751

Synonym: 1807537-33-2; Bromoacetamido-PEG3-*t*-butyl ester; Bromoacetamido-PEG3-C2-Boc; *Tert*-butyl 1-bromo-2-oxo-6,9,12-trioxa-3-azapentadecan-15-oate; BROMOACETAMIDO-PEG3-*t*-BUTYLESTER



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

Product Information

Description	Bromoacetamido-PEG3- <i>t</i> -butyl ester is a PEG linker comprising a bromide group and a <i>t</i> -butyl protected carboxyl group. The hydrophilic PEG spacer enhances solubility in aqueous environments. With its bromide moiety, it serves as an effective leaving group for nucleophilic substitution reactions. Additionally, the <i>t</i> -butyl protected carboxyl group is susceptible to deprotection under acidic conditions.
Molecular Weight	398.3
Molecular Formula	C ₁₅ H ₂₈ BrNO ₆
Functional Group 1	Bromoacetamido
Functional Group 2	None
Functional Group 3	None
IUPAC Name	<i>Tert</i> -butyl 3-[2-[2-[2-[(2-bromoacetyl)amino]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C15H28BrNO6/c1-15(2,3)23-14(19)4-6-20-8-10-22-11-9-21-7-5-17-13(18)12-16/h4-12H2, 1-3H3,(H,17,18)
InChI Key	QAQLZWBWKHLATI-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCNC(=O)CBr
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Bromoacetamido-PEG3- <i>t</i> -butyl ester finds utility in bioconjugation and chemical modification endeavors. Its bromide functionality facilitates conjugation with various nucleophiles, enabling the synthesis of bioconjugates or modified molecules. The <i>t</i> -butyl protected carboxyl group offers

versatility, allowing for controlled release or activation through deprotection under acidic conditions, thereby making it suitable for drug delivery or biomaterial applications.

Storage	Store at -20°C
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