

Product Information

Amino PEG reagent, *N*-(amino-PEG3)-*N*-bis(PEG3-*t*-butyl), Purity 97%

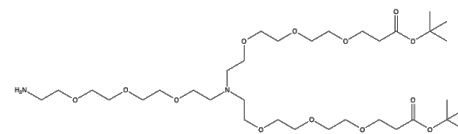
Cat. No.: X24-03-YW0239

Size: 100 mg; 250 mg; 500 mg

CAS Number: 2055042-62-9

PubChem CID: 123132126

Synonym: 2055042-62-9; *N*-(amino-peg3)-*N*-bis(peg3-*t*-butyl ester); *N*-(amino-PEG3)-*N*-bis(PEG3-Boc); *N*-(amino-PEG3)-*N*-bis(PEG3-*t*-butyl ester) HCl salt; *Tert*-butyl 3-[2-[2-[2-[2-[2-[2-(2-aminoethoxy)ethoxy]ethoxy]ethyl]-2-[2-[3-[(2-methylpropan-2-yl)oxy]-3-oxopropoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]propanoate



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

Product Information

Description	<i>N</i> -(amino-PEG3)- <i>N</i> -bis(PEG3- <i>t</i> -butyl) is a compound featuring amino-terminated PEG3 and <i>t</i> -butyl-protected PEG3 units. The amino group can undergo bioconjugation reactions, while the <i>t</i> -butyl groups offer protection.
Molecular Weight	712.9
Molecular Formula	C ₃₄ H ₆₈ N ₂ O ₁₃
Functional Group 1	Amino
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Carboxylic acid
Reactive Group 2	NHS
IUPAC Name	<i>Tert</i> -butyl 3-[2-[2-[2-[2-[2-[2-(2-aminoethoxy)ethoxy]ethoxy]ethyl]-2-[2-[3-[(2-methylpropan-2-yl)oxy]-3-oxopropoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C34H68N2O13/c1-33(2,3)48-31(37)7-13-39-19-25-45-28-22-42-16-10-36(12-18-44-24-30-47-27-21-41-15-9-35)11-17-43-23-29-46-26-20-40-14-8-32(38)49-34(4,5)6/h7-30,35H2,1-6H3
InChI Key	DTRLMBLMSQXPOL-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCN(CC(=O)OCCOCCOCCOCC(=O)OC(C)(C)C)CCOCCOCCOCCN
Form	Solid
Purity	97%

Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	<i>N</i> -(amino-PEG3)- <i>N</i> -bis(PEG3- <i>t</i> -butyl) is utilized in bioconjugation chemistry for attaching PEG moieties to biomolecules. The amino terminus allows coupling with various functional groups, while the <i>t</i> -butyl protection ensures controlled reactivity.
Storage	Store at -20°C