SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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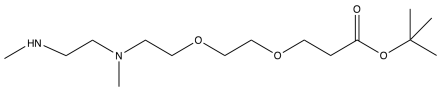
Product Information

N,N′-DME/*t*-Butyl ester PEG reagent, *N,N′*-DME-*N*-PEG2-*t*-butyl ester, Purity 95%



Cat. No.: X24-03-YW0745

Size: 250 mg; 500 mg; 1 g

CAS Number: 2279944-69-1

PubChem CID: 137334034

Synonym: 2279944-69-1; *N,N′*-DME-*N*-PEG2-*tert*-butyl ester; *Tert*-butyl 5-methyl-8,11-dioxa-2,5-diazatetradecan-14-oate; AKOS040743710

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

Product Information

Description	*N,N′*-DME-*N*-PEG2-*t*-butyl ester is a PEG linker featuring dimethyl ethylenediamine (DME) groups and a *t*-butyl ester. The dimethyl amine groups provide versatile reactivity for chemical modifications, while the t-butyl ester offers acid-labile protection for controlled activation. The PEG2 spacer enhances hydrophilicity and solubility in aqueous environments.
Molecular Weight	304.4
Molecular Formula	$C_{15}H_{32}N_2O_4$
Functional Group 1	*N,N′*-DME
Functional Group 2	*t*-Butyl ester
Reactive Group 1	Acid
Reactive Group 2	Amine
IUPAC Name	*Tert*-butyl 3-[2-[2-[methyl-[2-(methylamino)ethyl]amino]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C15H32N2O4/c1-15(2,3)21-14(18)6-10-19-12-13-20-11-9-17(5)8-7-16-4/h16H,6-13H2,1-5H3
InChI Key	VROYCYWEWWSVEE-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCN(C)CCNC
Form	Oil
Purity	95%
Identity	Confirmed by NMR.
Applications	*N,N′*-DME-*N*-PEG2-*t*-butyl ester is employed in research for developing functionalized linkers, studying molecular interactions, and exploring acid-mediated deprotection mechanisms. Its dual-functional groups allow precise conjugation and derivatization, making it suitable for creating hydrophilic materials and investigating crosslinking strategies in experimental studies.

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Storage	Store at -20°C.

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