

Product Information

Maleimide/*t*-Butyl ester PEG reagent, Methylamino-PEG2-*t*-butyl ester, Purity 98%

Cat. No.: X24-03-YW0744

Size: 100 mg; 500 mg; 1 g

MDL: MFCD28155207

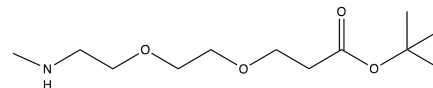
CAS Number: 1807521-04-5

PubChem CID: 86291523

Synonym: 1807521-04-5; Methylamino-PEG2-*t*-butyl ester; Methylamino-PEG2-Boc;

Tert-butyl 3-(2-(2-(methylamino)ethoxy)ethoxy)propanoate

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



Product Information

Description	Methylamino-PEG2- <i>t</i> -butyl ester is a PEG linker with a methylamino group and a <i>t</i> -butyl-protected ester. The methylamine group allows for efficient reactivity with carboxylic acids and carbonyl compounds, while the <i>t</i> -butyl ester provides acid-labile protection for controlled carboxylic acid activation. The PEG2 spacer enhances water solubility and hydrophilicity.
Molecular Weight	247.3
Molecular Formula	C ₁₂ H ₂₅ NO ₄
Functional Group 1	Maleimide
Functional Group 2	<i>t</i> -Butyl ester
Reactive Group 1	Acid
Reactive Group 2	Thiol
IUPAC Name	<i>Tert</i> -butyl 3-[2-[2-(methylamino)ethoxy]ethoxy]propanoate
InChI	InChI=1S/C12H25NO4/c1-12(2,3)17-11(14)5-7-15-9-10-16-8-6-13-4/h13H,5-10H2,1-4H3
InChI Key	AVMNTSUPHZLJHS-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCNC
Form	Liquid
Purity	98%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Methylamino-PEG2- <i>t</i> -butyl ester is used in research to develop functionalized molecules, explore

amine-reactive conjugations, and study acid-mediated deprotection mechanisms. Its dual-functional groups enable versatile applications in linker design, biomolecular modifications, and the synthesis of hydrophilic materials for experimental studies.

Storage

Store at -20°C.
