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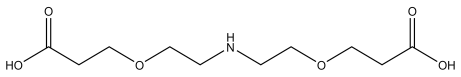
Product Information

NHS PEG reagent, *t*-Butoxycarbonyl-PEG1-NHS ester, Purity 98%



Cat. No.: X24-09-YYX186

Size: 100 mg; 250 mg; 500 mg

CAS Number: 2228857-37-0

PubChem CID: 134159749

Synonym: 2228857-37-0; *t* -Butoxycarbonyl-PEG1-NHS ester; *t*-butyl 3-(3-((2,5-dioxopyrrolidin-1-yl)oxy)-3-oxopropoxy)propanoate

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

Product Information

Description	*t*-Butoxycarbonyl-PEG1-NHS ester features a *t*-Boc protecting group along with an NHS ester moiety. The *t*-Boc group can be eliminated under acidic conditions. Additionally, the hydrophilic PEG spacer enhances solubility in aqueous environments. This NHS ester reacts selectively and efficiently with primary amines (such as those found in lysine side chains or on aminosilane-coated surfaces) at neutral or slightly basic pH levels to create covalent bonds.
Molecular Weight	315.3
Molecular Formula	$C_{14}H_{21}NO_7$
Functional Group 1	Ester
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	*tert*-butyl 3-[3-(2,5-Dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]propanoate
InChI	InChI=1S/C14H21NO7/c1-14(2,3)21-12(18)6-8-20-9-7-13(19)22-15-10(16)4-5-11(15)17/h4-9H2,1-3H3
InChI Key	OKCYHIBRCGKAEL-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)CCOCCC(=O)ON1C(=O)CCC1=O
Form	Solid or viscous liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	This compound is often used in peptide synthesis and bioconjugation. It serves as a linker to attach PEG (polyethylene glycol) chains to biomolecules, facilitating solubility and bioavailability.

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Storage	Store at -20°C.

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