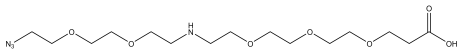
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Fmoc-protected Amine/NHS PEG reagent, Fmoc-PEG1-NHS ester, Purity 98%



Cat. No.: X24-09-YYX182

Size: 100 mg; 500 mg; 1 g

CAS Number: 1807521-05-6

PubChem CID: 57755338

Synonym: 1807521-05-6; Fmoc-PEG1-CH_2CH_2-NHS ester; FMOC-PEG1-NHSESTER; 2,5-dioxopyrrolidin-1-yl 3-(2-((((9H-fluoren-9-yl)methoxy)carbonyl)amino)ethoxy)propanoate; 2,5-dioxopyrrolidin-1-yl 3-[2-({[(9H-fluoren-9-yl)methoxy]carbonyl}amino)ethoxy]propanoate; FmocNH-PEG1-CH_2CH_2COONHS

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

Product Information

Description	Fmoc-PEG1-NHS ester serves as a PEG linker incorporating an Fmoc-protected amine along with an NHS ester moiety. The Fmoc group provides protection during peptide synthesis. The PEG1 chain offers some improvement in solubility. The NHS ester is reactive towards amine groups, making it applicable in peptide modification and bioconjugation processes.
Molecular Weight	452.5
Molecular Formula	$C_{24}H_{24}N_2O_7$
Functional Group 1	Ester
Functional Group 2	Fmoc
Functional Group 3	NHS
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-(9*H*-fluoren-9-ylmethoxycarbonylamino)ethoxy]propanoate
InChI	InChI=1S/C24H24N2O7/c27-21-9-10-22(28)26(21)33-23(29)11-13-31-14-12-25-24(30)32-15-20-18-7-3-1-5-16(18)17-6-2-4-8-19(17)20/h1-8,20H,9-15H2,(H,25,30)
InChI Key	BGPXUJXGIVJFGP-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24
Form	Solid or viscous liquid
Purity	98%
Identity	Confirmed by NMR.

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Applications	Fmoc-PEG1-NHS ester is used in solid-phase peptide synthesis and as a reversible protective group for amino acid residues. It is employed in the construction of peptide libraries and in the development of peptide-based therapeutics.
Storage	Store at -20°C.