

Product Information

Fmoc-protected Amine/NHS PEG reagent, Fmoc-PEG4-NHS ester, Purity 98%

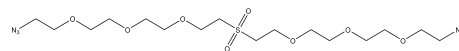
Cat. No.: X24-09-YYX217

Size: 250 mg; 500 mg; 1 g; 5 g

CAS Number: 1314378-14-7

PubChem CID: 60146207

Synonym: 1314378-14-7; Fmoc-PEG4-NHS ester; 2,5-dioxopyrrolidin-1-yl 1-(9H-fluoren-9-yl)-3-oxo-2,7,10,13,16-pentaoxa-4-azonanadecan-19-oate; FmocNH-PEG4-NHS ester; Fmoc-N-amido-PEG4-NHS ester



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

Product Information

Description	Fmoc-PEG4-NHS ester functions similarly as another PEG linker featuring an Fmoc-protected amino group alongside an NHS ester functionality. The hydrophilic nature of its PEG spacer increases solubility when placed into aqueous media, and like before, the Fmoc group can be deprotected under basic conditions to produce free aminogroups suitable for additional conjugations involving primary amines <i>t</i> -from proteins or modified oligonucleotides.
Molecular Weight	584.6
Molecular Formula	C ₃₀ H ₃₆ N ₂ O ₁₀
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-[2-[2-[2-(9H-fluoren-9-ylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C30H36N2O10/c33-27-9-10-28(34)32(27)42-29(35)11-13-37-15-17-39-19-20-40-18-16-38-14-12-31-30(36)41-21-26-24-7-3-1-5-22(24)23-6-2-4-8-25(23)26/h1-8,26H,9-21H2,(H,31,36)
InChI Key	NMCTTZZPHFQEQB-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24
Form	Solid or viscous liquid
Purity	98%
Solubility	DMSO, DMF, DCM

Identity	Confirmed by NMR.
Applications	Fmoc-PEG4-NHS ester is commonly employed in the synthesis of peptides and the modification of biomolecules to incorporate PEG moieties and Fmoc protection.
Storage	Store at -20°C.