

Product Information

Fmoc-protected Amine/NHS PEG reagent, Fmoc-PEG5-NHS ester, Purity 98%

Cat. No.: X24-09-YYX158

Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 1402080-11-8

PubChem CID: 102514880

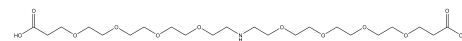
Synonym: 1402080-11-8; Fmoc-PEG5-NHS ester; FmocNH-PEG5-NHS ester;

(2,5-dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-(9H-

fluoren-9-ylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate;

Fmoc-PEG5-NHS ester

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



Product Information

Description	Fmoc-PEG5-NHS ester is a compound that combines a Fmoc-protected group, a PEG5 chain, and an NHS ester. It is often used in peptide synthesis and bioconjugation. The Fmoc group provides protection during synthesis, while the PEG5 chain enhances solubility and the NHS ester enables conjugation with amine-containing molecules.
Molecular Weight	628.7
Molecular Formula	C ₃₂ H ₄₀ N ₂ O ₁₁
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]ethoxy]propanoate
InChI	InChI=1S/C32H40N2O11/c35-29-9-10-30(36)34(29)45-31(37)11-13-39-15-17-41-19-21-43-22-20-42-18-16-40-14-12-33-32(38)44-23-28-26-7-3-1-5-24(26)25-6-2-4-8-27(25)28/h1-8,28H,9-23H2,(H,33,38)
InChI Key	YYFZVKBZSMQTP-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24
Form	Solid or viscous liquid

Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	It is utilized in peptide synthesis and bioconjugation, this compound allows for the attachment of PEG to proteins or peptides <i>via</i> the NHS ester functionality, improving solubility and bioavailability.
Storage	Store at -20°C.