

Product Information

Fmoc-protected Amine/NHS PEG reagent, Fmoc-PEG8-NHS ester, Purity 98%

Cat. No.: X24-09-YYX202

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

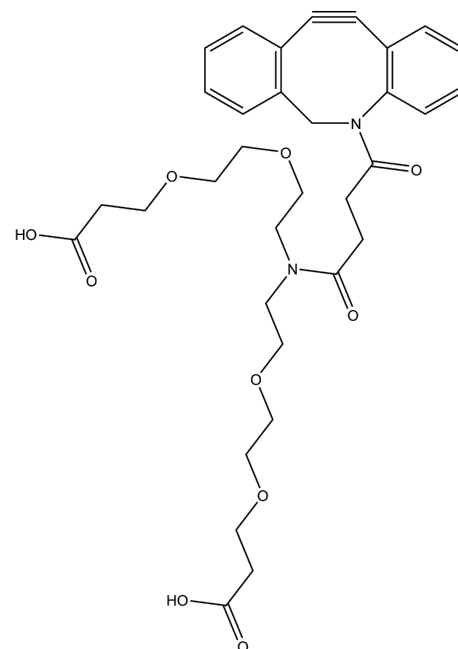
CAS Number: 1334170-03-4

PubChem CID: 77078439

Synonym: 1334170-03-4; Fmoc-PEG8-NHS ester; Fmoc-NH-PEG8-NHS; Fmoc-NH-

PEG8-NHS ester; FmocNH-PEG8-NHS ester

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



Product Information

Description	Fmoc-PEG8-NHS ester functions as a PEG linker that includes an Fmoc-protected amine along with an NHS ester moiety. The hydrophilic nature of its PEG spacer improves solubility in water-based environments. The Fmoc group can be removed under basic conditions to yield free amines suitable for further conjugation reactions, while the NHS ester allows labeling of primary amines <i>t</i> -found within proteins or other similar compounds containing amino functionalities.
Molecular Weight	760.8
Molecular Formula	C ₃₈ H ₅₂ N ₂ O ₁₄
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-[2-[2-[2-(9H -fluoren-9-ylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propa noate
InChI	InChI=1S/C38H52N2O14/c41-35-9-10-36(42)40(35)54-37(43)11-13-45-15-17-47-19-21-49-23-25-51 -27-28-52-26-24-50-22-20-48-18-16-46-14-12-39-38(44)53-29-34-32-7-3-1-5-30(32)31-6-2-4-8-33(3 1)34/h1-8,34H,9-29H2,(H,39,44)

InChI Key	AMSAHSNOOQLQOU-UHFFFAOYSA-N
Canonical SMILES	<chem>C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24</chem>
Form	Solid or viscous liquid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Fmoc-PEG8-NHS ester is often utilized in peptide synthesis and the modification of peptides to add PEG chains and protect amino groups.
Storage	Store at -20°C.