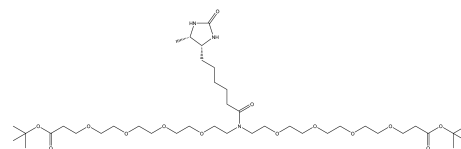


Fmoc-protected Amine/NHS PEG reagent, Fmoc-PEG12-NHS ester, Purity 95%

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



Description	Fmoc-PEG12-NHS ester functions as a PEG linker incorporating an Fmoc-protected amino group along with an NHS ester functionality. Its hydrophilic PEG spacer improves solubility when placed into aqueous media. The Fmoc protecting group can be removed under basic conditions to yield free aminogroups suitable for further conjugation reactions involving primary amines from proteins or modified oligonucleotides.
Molecular Weight	937.1
Molecular Formula	C ₄₆ H ₆₈ N ₂ O ₁₈
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-[2-[2-(9H -fluoren-9-ylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C46H68N2O18/c49-43-9-10-44(50)48(43)66-45(51)11-13-53-15-17-55-19-21-57-23-25-59-27-29-61-31-33-63-35-36-64-34-32-62-30-28-60-26-24-58-22-20-56-18-16-54-14-12-47-46(52)65-37-42-40-7-3-1-5-38(40)39-6-2-4-8-41(39)42/h1-8,42H,9-37H2,(H,47,52)
InChI Key	HQKUPHFWWTZASE-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCNC(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24
Form	Solid or viscous liquid

Purity	95%
Solubility	DCM
Identity	Confirmed by NMR.
Applications	In peptide synthesis, it is used to add long PEG chains and Fmoc protection groups. The PEG moiety improves the solubility and pharmacokinetic properties of the peptides, making them more suitable for therapeutic use. It can also be used in the modification of proteins to create conjugates for drug delivery or for improving the stability and functionality of enzymes.
Storage	Store at -20°C.