

NHS PEG reagent, Bis-PEG10-NHS ester, Purity 98%

C(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC(=O)OC(C)(C)C

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

Description	Bis-PEG10-NHS ester is a PEG linker that features two NHS ester groups. The hydrophilic PEG spacer enhances solubility in aqueous solutions. This NHS ester can be employed to label primary amines <i>t</i> -present in proteins, amine-modified oligonucleotides, and other molecules containing amino groups.
Molecular Weight	752.8
Molecular Formula	C ₃₂ H ₅₂ N ₂ O ₁₈
Functional Group 1	Ester
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[2-[2-[2-[3-(2,5-Dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C30H48N2O17/c33-25-1-2-26(34)31(25)48-29(37)5-7-39-9-11-41-13-15-43-17-19-45-21-23-47-24-22-46-20-18-44-16-14-42-12-10-40-8-6-30(38)49-32-27(35)3-4-28(32)36/h1-24H2
InChI Key	CQWLSZJYTZVHMU-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)ON2C(=O)CCC2=O
Form	Solid or viscous liquid
Purity	98%

Identity	Confirmed by NMR.
Applications	Bis-PEG10-NHS ester can be used for the conjugation and modification of biomolecules and materials to enhance their hydrophilicity and biocompatibility.
Storage	Store at -20°C.