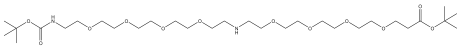
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

NHS PEG reagent, Bis-PEG25-NHS ester, Purity 97%



Cat. No.: X24-09-YYX220

Size: 100 mg; 250 mg; 500 mg

CAS Number: 2221948-96-3

PubChem CID: 77078480

Synonym: 2221948-96-3; NHS-PEG24-NHS; BIS(2,5-DIOXOPYRROLIDI*N*-1-YL) 4,7 ,10,13,16,19,22,25,28,31,34,37,40,43,46,49,52,55,58,61,64,67,70,73,76-PENTACOS AOXANONAHEPTACONTANEDIOATE

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

Product Information

Description	Bis-PEG25-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 utilized for labeling primary amines *t*-found in proteins, amine-modified oligonucleotides, and other molecules containing amino groups.
Molecular Weight	1413.6
Molecular Formula	$C_{62}H_{112}N_2O_{33}$
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-[2-[3-(2,5-dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]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)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)ON2C(=O)CCC2=O
Form	Solid or viscous liquid
Purity	97%
Identity	Confirmed by NMR.

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Applications	Bis-PEG25-NHS ester has diverse applications in the field of biomaterials and bioconjugation. It can be used to functionalize surfaces of nanoparticles or biomolecules to improve their biocompatibility and stability. In drug delivery systems, it can help increase the circulation time of the payload by reducing immune recognition.
Storage	Store at -20°C.

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