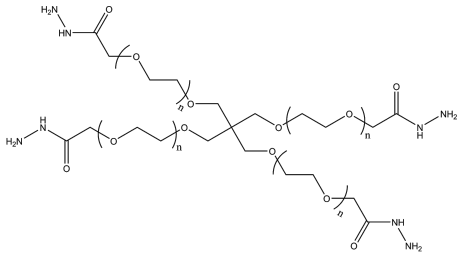
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Carboxylic acid/NHS PEG reagent, Acid-PEG25-NHS ester, Purity 95%



Cat. No.: X24-09-YYX216

Size: 100 mg; 500 mg; 1 g

CAS Number: 1643594-31-3

PubChem CID: 86276394

Synonym: NHS-dPEG?(25)-COOH; NHS-dPEGtrade mark(25)-COOH

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

Product Information

Description	Acid-PEG25-NHS ester serves as a PEG linker incorporating both a carboxylic acid and an NHS ester moiety. Its hydrophilic PEG spacer improves solubility in water-based environments. The terminal carboxylic acid can react with primary amine groups when activated by agents such as EDC or HATU to form stable amide bonds. Additionally, this NHS ester allows for labeling primary amines *t*-present within proteins or other similar compounds containing amino functionalities.
Molecular Weight	1316.5
Molecular Formula	$C_{58}H_{109}NO_{31}$
Functional Group 1	Acid
Functional Group 2	Ester
Functional Group 3	NHS
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[3-(2,5-Dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C34H61NO19/c36-31-1-2-32(37)35(31)54-34(40)4-6-42-8-10-44-12-14-46-16-18-48-20-22-50-24-26-52-28-30-53-29-27-51-25-23-49-21-19-47-17-15-45-13-11-43-9-7-41-5-3-33(38)39/h1-30H2,(H,38,39)
InChI Key	IBSDUGROMOGHLR-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)O
Form	Solid or viscous liquid
Purity	95%
Identity	Confirmed by NMR.
Applications	Acid-PEG25-NHS ester can be applied in the modification of surfaces or biomolecules to introduce

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

	carboxylic acid functionalities and improve their properties.
Storage	Store at -20°C.