Product Information

Carboxylic acid/NHS PEG reagent, Acid-PEG13-NHS ester, Purity 95%

Cat. No.: X24-09-YYX171

Size: 100 mg; 500 mg; 1 g

CAS Number: 1643594-31-3

PubChem CID: 86276394

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

HO NO OH

Product Information		
Description	Acid-PEG13-NHS ester functions as a PEG linker featuring 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 amines when activated by agents such as EDC or HATU to form stable amide bonds. Additionally, the NHS ester allows for labeling of primary amines <i>t</i> -within proteins or other similar molecules containing amino functionalities.	
Molecular Weight	787.9	
Molecular Formula	C ₃₄ H ₆₁ NO ₁₉	
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-[2-	
InChI	InChl=1S/C34H61NO19/c36-31-1-2-32(37)35(31)54-34(40)4-6-42-8-10-44-12-14-46-16-18-48-20-2 2-50-24-26-52-28-30-53-29-27-51-25-23-49-21-19-47-17-15-45-13-11-43-9-7-41-5-3-33(38)39/h1-3 0H2,(H,38,39)	
InChi Key	IBSDUGROMOGHLR-UHFFFAOYSA-N	
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCCC(=O)O	
Form	Solid or viscous liquid	
Purity	95%	

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Identity	Confirmed by NMR.
Applications	This compound is utilized in bioconjugation for the attachment of biomolecules, such as proteins or peptides, to surfaces or other macromolecules. The NHS (<i>N</i> -hydroxysuccinimide) group facilitates the formation of stable amide bonds with primary amines, making it suitable for drug delivery and development of conjugated therapeutics.
Storage	Store at -20°C.