

Product Information

Carboxylic acid PEG reagent, Bis-PEG5-acid, Purity 98%

Cat. No.: X24-03-YW0108

Size: 1 g; 5 g; 10 g; 25 g

CAS Number: 439114-13-3

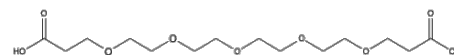
PubChem CID: 18374596

Synonym: 439114-13-3; Bis-PEG5-acid;

4,7,10,13,16-PENTAOXANONADECANE-1,19-DIOIC ACID;

4,7,10,13,16-Pentaoxanonadecanedioic acid;

3-[2-[2-[2-[2-(2-carboxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid



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

Product Information

Description	Bis-PEG5-acid is a PEG linker featuring two terminal carboxylic acid groups. Its hydrophilic PEG spacer enhances solubility in aqueous media. The terminal carboxylic acids are capable of forming stable amide bonds with primary amine groups under the influence of activators like EDC or HATU.
Molecular Weight	338.4
Molecular Formula	C ₁₄ H ₂₆ O ₉
Functional Group 1	Carboxylic acid
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-(2-Carboxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C14H26O9/c15-13(16)1-3-19-5-7-21-9-11-23-12-10-22-8-6-20-4-2-14(17)18/h1-12H2,(H,15,16)(H,17,18)
InChI Key	VRTJBJNTMHDBAI-UHFFFAOYSA-N
Canonical SMILES	C(COCCOCCOCCOCCOCCC(=O)O)C(=O)O
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Bis-PEG5-acid is widely employed in bioconjugation and chemical modification applications. It serves as a versatile tool for functionalizing biomolecules such as peptides, proteins, and nucleic

acids, enabling the attachment of various ligands or payloads. Additionally, it finds utility in surface modification for the development of biomedical devices, drug delivery systems, and diagnostics.

Storage	Store at -20°C
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