Product Information

Amine/Hydroxyl PEG reagent, Amino-PEG24-alcohol, Purity 97%

Cat. No.: X24-03-YW0716

Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 2226726-55-0

PubChem CID: 75535019

Synonym: 2226726-55-0; H_2N-PEG24-OH; 71-AMINO-3,6,9,12,15,18,21,24,27,30,33,36,39,42,45,48,51,54,57,60,63,66,69-TRICOSAOXAHENHEPTACONTAN-1-OL; Amino-PEG24-OH

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

Product Information

Description	Amino-PEG24-alcohol is a long-chain PEG crosslinker featuring a primary amine and a terminal hydroxyl group. The amine group is highly reactive with carboxylic acids, activated NHS esters, and carbonyl compounds, while the hydroxyl group offers flexibility for additional chemical modifications. The extended PEG24 chain enhances solubility and stability in aqueous environments.
Molecular Weight	1,074.3
Molecular Formula	$C_{48}H_{99}NO_{24}$
Functional Group 1	Amine
Functional Group 2	Hydroxyl
Reactive Group 1	Acid
Reactive Group 2	Nucleophile
IUPAC Name	2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Aminoethoxy)ethoxy]ethanol
InChI	InChI=1S/C48H99NO24/c49-1-3-51-5-7-53-9-11-55-13-15-57-17-19-59-21-23-61-25-27-63-29-31-65-33-35-67-37-39-69-41-43-71-45-47-73-48-46-72-44-42-70-40-38-68-36-34-66-32-30-64-28-26-62-24-22-60-20-18-58-16-14-56-12-10-54-8-6-52-4-2-50/h50H,1-49H2
InChI Key	OHVQIDUZLZJDPE-UHFFFAOYSA-N
Canonical SMILES	C(COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO)N
Form	Solid
Purity	97%

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

Identity	Confirmed by NMR.
Applications	Amino-PEG24-alcohol is utilized in research for developing bioconjugates and studying molecular interactions. Its amine group facilitates covalent attachment to biomolecules, while the hydroxyl group supports further functionalization, making it ideal for creating hydrophilic linkers and exploring crosslinking mechanisms in experimental and material science studies.
Storage	Store at -20°C.

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