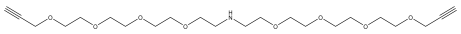
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Carboxylic acid PEG reagent, 3-(m-PEG12-ethoxycarbonyl)propanoic acid



Cat. No.: X24-09-YYX079

Size: 250 mg; 500 mg; 1 g

CAS Number: 2168540-50-7

PubChem CID: 137334042

Synonym: Carboxylic acid PEG reagent; 3-(m-PEG12-ethoxycarbonyl)propanoic acid

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

Product Information

Description	3-(m-PEG12-ethoxycarbonyl)propanoic acid is a unique chemical compound. It incorporates a PEG12 (polyethylene glycol with 12 units) moiety attached *via* an ethoxycarbonyl linker to a propanoic acid backbone at the 3-position. The long PEG12 chain significantly enhances the compound's solubility in aqueous and organic solvents, which broadens its application potential. The ethoxycarbonyl and propanoic acid functional groups offer possibilities for chemical reactions and modifications.
Molecular Weight	660.8
Molecular Formula	$C_{29}H_{56}O_{16}$
Functional Group 1	Acid
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	4-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]-4-oxobutanoic acid
InChI	InChI=1S/C29H56O16/c1-33-4-5-34-6-7-35-8-9-36-10-11-37-12-13-38-14-15-39-16-17-40-18-19-41-20-21-42-22-23-43-24-25-44-26-27-45-29(32)3-2-28(30)31/h2-27H2,1H3,(H,30,31)
InChI Key	FTRVNFAPQPZBMK-UHFFFAOYSA-N
Canonical SMILES	COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(=O)CCC(=O)O
Form	Solid
Identity	Confirmed by NMR.
Applications	This compound may find valuable uses in areas such as drug formulation, polymer science, and materials engineering, where its solubility and functional characteristics can be exploited to achieve specific desired effects.

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Storage	Store at -20°C.

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