Product Information

Phosphonic acid PEG reagent, Propargyl-PEG3-phosphonic acid ethyl ester, Purity ≥98%

Cat. No.: X25-10-YM052

Size: 50 mg; 100 mg; 250 mg; 500 mg

CAS Number: 2093153-86-5 **PubChem CID:** 126480453

Synonym: 2093153-86-5; m-PEG8-(CH₂)12-phosphonic acid; m-

PEG8-C10-phosphonic acid;

(2,5,8,11,14,17,20,23-Octaoxapentatriacontan-35-yl)phosphonic acid

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

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Description	m-PEG8-(CH ₂)12-phosphonic acid has a molecular weight of 588.7 and is characterized by the chemical formula $C_{27}H_{57}O_{11}P$. It consists of the functional groups phosphonic acid, and the reactive group is marked by alcohol.	
Molecular Weight	588.7	
Molecular Formula	C ₂₇ H ₅₇ O ₁₁ P	
Functional Group 1	Phosphonic acid	
Reactive Group 1	Alcohol	
IUPAC Name	12-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]dodecylphosphoni c acid	
InChi Key	NTBISXIRWIJPLV-UHFFFAOYSA-N	
Canonical SMILES	COCCOCCOCCOCCOCCCCCCCCCCCC(=O)(O)O	
Form	Solid	
Purity	≥98%	
Impurities	No visible impurities to the naked eye.	
Identity	Confirmed by NMR.	
Applications	m-PEG8-(CH ₂)12-phosphonic acid can be studied extensively for its ability to prevent biofouling, such as in medical devices or marine applications.	
Storage	Store at -20°C.	