

Product Information

Azide/NHS PEG reagent, Azido-PEG3-succinimidyl carbonate, Purity 98%

Cat. No.: X24-09-YYX340

Size: 100 mg; 500 mg; 1 g

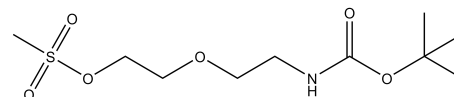
CAS Number: 2110448-98-9

PubChem CID: 129012724

Synonym: 2110448-98-9; Azido-PEG3-succinimidyl carbonate; Azido-PEG3-O-NHS

ester

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



Product Information

Description	Azido-PEG3-succinimidyl carbonate serves as a PEG linker that incorporates both azide and succinimidyl carbonate groups. The azide moiety can participate in copper-catalyzed click chemistry reactions with alkynes. Additionally, the succinimidyl carbonate group functions as an effective leaving group that typically reacts with amine nucleophiles. The hydrophilic nature of the PEG linker improves the compound's solubility in water.
Molecular Weight	360.3
Molecular Formula	C ₁₃ H ₂₀ N ₄ O ₈
Functional Group 1	Azide
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Alkynyl
IUPAC Name	2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethyl (2,5-dioxopyrrolidin-1-yl) carbonate
InChI	InChI=1S/C13H20N4O8/c14-16-15-3-4-21-5-6-22-7-8-23-9-10-24-13(20)25-17-11(18)1-2-12(17)19/h1-10H2
InChI Key	RIGURCMYKOKGN-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)OCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%
Identity	Confirmed by NMR.
Applications	The succinimidyl carbonate group reacts with amino groups on proteins to attach the PEG3-azide moiety. This modification can improve protein stability, solubility, and pharmacokinetic properties.

Storage

Store at -20°C.
