SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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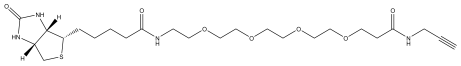
Product Information

Azide/Carbonyl/NHS PEG reagent, *N*-(Azide-PEG8-carbonyl)-*N*-bis(PEG8-NHS ester), Purity 95%



Cat. No.: X24-09-YYX464

Size: 25 mg; 50 mg; 100 mg; 250 mg

Synonym: *N*-bis(PEG8-NHS ester)-*N*-(Azide-PEG8-carbonyl); Azide-PEG8-carbonyl-bis(PEG8-NHS ester); *N*-(PEG8-NHS ester)-*N*-(Azide-PEG8-carbonyl)

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

Product Information

Description	The compound *N*-(Azide-PEG8-carbonyl)-*N*-bis(PEG8-NHS ester) is a sophisticated molecule. It incorporates an azide group attached to a PEG8 chain with a carbonyl moiety and two PEG8 chains capped with NHS ester groups. The PEG8 chains increase the compound's water solubility and biocompatibility. The azide functionality provides a reactive site for click chemistry, allowing for precise conjugation with complementary molecules. The NHS ester groups are highly reactive and can readily form stable bonds with amine-containing compounds.
Molecular Weight	1509.7
Molecular Formula	$C_{65}H_{116}N_6O_{33}$
Functional Group 1	NHS
Functional Group 2	Azide
Functional Group 3	Carbonyl
Reactive Group 1	Alkyne
Reactive Group 2	Amine
Form	Solid
Purity	95%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	This compound has significant potential in the field of bioconjugation and drug delivery. It can be used to conjugate biomolecules such as proteins and peptides, modifying their properties and functionality. In drug delivery, it can be employed to attach therapeutic agents to targeted carriers, enhancing their specificity and efficacy. Additionally, it can be utilized in the development of biosensors and diagnostic tools by conjugating recognition elements to the appropriate substrates.
Storage	Store at -20°C.

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