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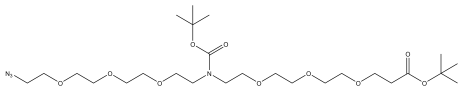
Product Information

DBCO/NHS PEG reagent, *N*-(DBCO-PEG4-carbonyl)-*N*-bis(PEG4-NHS ester), Purity 95%



Cat. No.: X24-09-YYX199

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

Synonym: DBCO-PEG4-carbonyl-bis(PEG4-NHS); *N*-bis(PEG4-*N*-hydroxysuccinimide ester)-*N*-(DBCO-PEG4); *N*-(DBCO-PEG4)-*N*-bis(PEG4-NHS ester); *N*-(DBCO-PEG4-carbonyl)-*N*-bis(PEG4-NHS)

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

Product Information

Description	*N*-(DBCO-PEG4-carbonyl)-*N*-bis(PEG4-NHS ester)is a complex and specialized chemical compound. It combines a DBCOgroup linked to a polyethylene glycol chain through a carbonyl linkage, and two PEG4 chains each terminated with an NHS ester group. The DBCO moiety enables click chemistry reactions for specific and efficient conjugation. The PEG4 chains enhance solubility and biocompatibility. The NHS ester functionalities are highly reactive, allowing for conjugation with a wide range of molecules.
Molecular Weight	1242.4
Molecular Formula	$C_{60}H_{83}N_5O_{23}$
Functional Group 1	DBCO
Functional Group 2	Ester
Functional Group 3	NHS
Reactive Group 1	Amine
Form	Solid or viscous liquid
Purity	95%
Identity	Confirmed by NMR.
Applications	*N*-(DBCO-PEG4-carbonyl)-*N*-bis(PEG4-NHS ester) is employed in bioorthogonal reactions and the conjugation of biomolecules for targeted therapeutics or imaging.
Storage	Store at -20°C.