

Product Information

DBCO/NHS PEG reagent, DBCO-C5-NHS ester, Purity 95%

Cat. No.: X24-03-YW0426

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

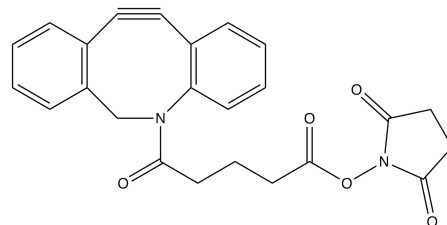
CAS Number: 1393350-27-0

PubChem CID: 139600274

Synonym: 1393350-27-0; DBCO-NHS ester 3; DBCO-C5-NHS ester;

AKOS040743182; BP-29651

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



Product Information

Description	DBCO-C5-NHS ester is an amine-reactive compound used to modify amine-containing molecules in organic media. The extended 5-carbon spacer arm improves solubility in organic solvents and enhances derivatization efficiency and stability of conjugates.
Molecular Weight	416.4
Molecular Formula	C ₂₄ H ₂₀ N ₂ O ₅
Functional Group 1	DBCO
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
Reactive Group 2	Azide
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 5-(2-azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-5-oxopentanoate
InChI	InChI=1S/C24H20N2O5/c27-21(10-5-11-24(30)31-26-22(28)14-15-23(26)29)25-16-19-8-2-1-6-17(19)12-13-18-7-3-4-9-20(18)25/h1-4,6-9H,5,10-11,14-16H2
InChI Key	CFQHVJJWCDJMLI-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCCC(=O)N2CC3=CC=CC=C3C#CC4=CC=CC=C42
Form	Solid
Purity	95%
Identity	Confirmed by NMR.
Applications	DBCO-C5-NHS ester is used in bioconjugation and molecular biology research, facilitating efficient copper-free Click Chemistry reactions. It is ideal for modifying amine-containing molecules in organic

solvents.

Storage

Store at -20°C.