

Product Information

DBCO/Boc-protected Amine PEG reagent, DBCO-NH-Boc, Purity 98%

Cat. No.: X24-03-YW0366

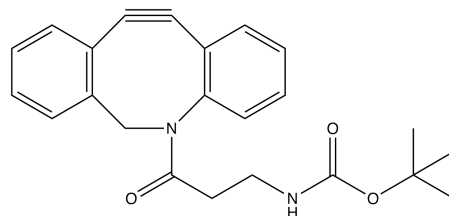
Size: 100 mg; 250 mg; 500 mg

CAS Number: 1539290-74-8

PubChem CID: 134811410

Synonym: 1539290-74-8; DBCO-NH-Boc; LCZC1176; AKOS040743161; BP-24094

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



Product Information

Description	DBCO-NH-Boc is a reagent grade click chemistry reagent featuring a DBCO group for copper-free Click Chemistry reactions with azides.
Molecular Weight	376.5
Molecular Formula	C ₂₃ H ₂₄ N ₂ O ₃
Functional Group 1	DBCO
Functional Group 2	Boc-protected amine
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>Tert</i> -butyl <i>N</i> -[3-(2-azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-3-oxopropyl]carbamate
InChI	InChI=1S/C23H24N2O3/c1-23(2,3)28-22(27)24-15-14-21(26)25-16-19-10-5-4-8-17(19)12-13-18-9-6-7-11-20(18)25/h4-11H,14-16H2,1-3H3,(H,24,27)
InChI Key	REYNVEBGFGQBTG-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCC(=O)N1CC2=CC=CC=C2C#CC3=CC=CC=C31
Form	Solid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	DBCO-NH-Boc is used in bioconjugation and molecular biology research, enabling efficient copper-free Click Chemistry reactions with azides. Its design is ideal for studying biomolecular interactions and developing targeted drug delivery systems.

Storage Store at -20°C.
