

DBCO-PEG-NHS (MW 2000)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	DBCO-PEG-NHS (MW 2000) is a heterobifunctional PEG derivative containing a dibenzocyclooctyne (DBCO) unit for copper-free click chemistry with azides and an N-hydroxysuccinimide (NHS) ester for reaction with primary amines on proteins or peptides. The compound is an essential tool for constructing bio-orthogonal conjugation platforms, aiming to efficiently anchor ligands to nanocarriers or surfaces via a stable PEG spacer while reducing steric hindrance.
Targets(IC50)	Others
In vitro	In site-specific bioconjugation assays, DBCO-PEG-NHS (MW 2000) was used to conjugate scFv fragments to the surface of liposomes while maintaining high binding affinity for human ICAM-1 [1].

Reference

Hood ED, et al. Vascular Targeting of Radiolabeled Liposomes with Bio-Orthogonally Conjugated Ligands: Single Chain Fragments Provide Higher Specificity than Antibodies. *Bioconjug Chem.* 2018 Nov 21;29(11):3626-3637.

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