

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

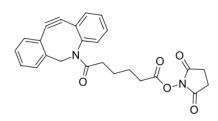
DBCO-NHS ester

http://www.lumiprobe.com/p/dbco-nhs-ester

Dibenzocyclooctyne (ADIBO, DBCO) is one of the most reactive cycloalkynes for strain-promoted alkyne azide cycloaddition (SPAAC) — a copper-free click chemistry reaction.

DBCO reacts instantly with azides. The reaction rate is much higher than that of copper-catalyzed reaction, and reactions with many other cyclooctynes. Unlike some other cyclooctynes, DBCO does not react with tetrazines — this allows to carry out orthogonal conjugation of azides with DBCO, and trans-cyclooctenes with tetrazines.

This amine-reactive NHS ester provides easy attachment of the reactive moiety to almost any primary or secondary amine group, such as protein, peptide, or small molecule amine.



DBCO (ADIBO) NHS ester structure

General properties

Appearance: off white solid

Mass spec M+ 315.1

increment:

Molecular 430.45

weight:

CAS number: 1384870-47-6
Molecular C₂₅H₂₂N₂O₅

formula:

 $IUPAC\ name: \quad 6-\{2-Azatricyclo[10.4.0.04,9]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl\}-6-oxohexanamide$

Solubility: good in DCM, DMF, DMSO

Quality control: NMR ¹H, HPLC-MS (95%)

Storage: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3

conditions: weeks. Avoid prolonged exposure to light. Desiccate.

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authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the

manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.