

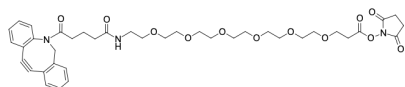
DBCO-PEG6-NHS ester

<http://www.lumiprobe.com/p/dbco-peg6-nhs-ester>

DBCO-PEG6-NHS ester is a bifunctional linker with dibenzocyclooctyne (DBCO) and NHS ester groups flanking PEG6 (hexaethylene glycol). The PEG spacer increases solubility in aqueous media and provides a long and flexible connection that minimizes steric hindrance involved with ligation.

Dibenzocyclooctyne readily reacts with azides via copper-free click chemistry reaction (strain-promoted alkyne azide cycloaddition, SPAAC). DBCO is one of the most reactive cycloalkynes that does not react with tetrazines.

The amine-reactive N-hydroxysuccinimide residue provides easy attachment to almost any primary or secondary amine group, such as protein, peptide, or small molecule amine.



Structure of DBCO-PEG6-NHS ester

General properties

Appearance: yellow to slightly orange oil

Molecular weight: 751.82

Molecular formula: $C_{39}H_{49}N_3O_{12}$

Solubility: DMSO, DMF, DCM, THF, Chloroform

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

Storage conditions: 12 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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