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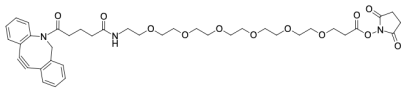
DBCO-PEG6-NHS ester

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 receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply 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.