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TCO-PEG4-NHS ester (axial isomer)

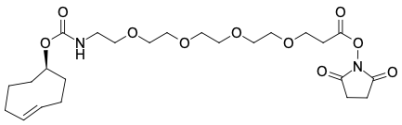
http://www.lumiprobe.com/p/tco-peg4-nhs-axial-isomer

TCO-PEG4-NHS ester is a bifunctional linker with trans-cyclooctene (TCO) and NHS ester groups flanking PEG4 (tetraethylene glycol).

The PEG spacer increases solubility in aqueous media and provides a long and flexible connection that minimizes steric hindrance involved with ligation.

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.

Trans-cyclooctene readily reacts with tetrazines via inverse electron-demand Diels-Alder cycloaddition (IEDDA). TCO-Tetrazine ligation possesses ultrafast kinetics, selectivity, and long-term aqueous stability, which is important in low-concentration applications such as protein-protein conjugations, etc.



Structure of TCO-PEG4-NHS ester

General properties

Appearance:	colorless syrup
Molecular weight:	514.57
CAS number:	1621096-79-4
Molecular formula:	$C_{24}H_{38}N_2O_{10}$
Solubility:	DMSO, DMF, THF, DCM, Acetonitrile
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.