

TCO-PEG4-NHS ester (axial isomer)

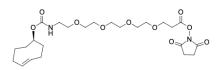
http://www.lumiprobe.com/p/tco-peg4-nhs-axial-isomer

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 lowconcentration 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, Acetonitrile, Dichloromethane
Quality control:	NMR ¹ H 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.
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