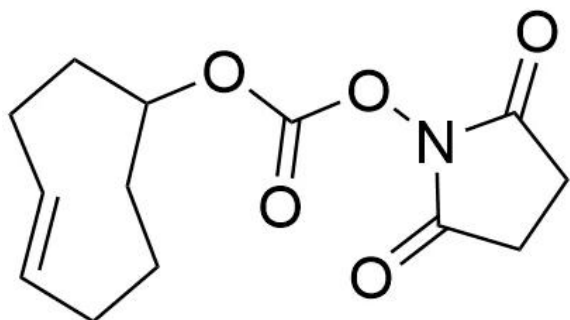




## TCO-NHS ESTER (EQUATORIAL)

**SKU:** CCT-1016



### DESCRIPTION

TCO-NHS Ester is an amine-reactive building block used for modification of amine-containing molecule in organic media. TCO-NHS ester is supplied as a single equatorial (major, *rel*-(1S-2S-5E-pR), ref 1 and 4) diastereomer. Specially formulated crystalline provides easy handling and extended shelf life.

#### Important Product Information:

TCO-NHS Ester is not recommended for labeling of proteins in aqueous buffers due to poor level of activation of labeled proteins (Rahim, M.K., *et al.*, Bioconjugate Chem. 2015, 26, 352-360). TCO-PEG4-NHS Ester is well suited for protein and antibody labeling in aqueous buffers.

### SPECIFICATIONS

<b>CAS Number</b>	1191901-33-3
<b>Molecular Weight</b>	267.28
<b>Appearance</b>	White to slightly grey crystalline
<b>Chemical Formula</b>	C <sub>13</sub> H <sub>17</sub> NO <sub>5</sub>
<b>Purity</b>	>95% (HPLC)

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**



<b>Unit Size</b>	25 mg, 100 mg, 1000 mg
<b>Solubility</b>	DMSO, DMF, DCM, THF, Chloroform
<b>Storage Instructions</b>	-20°C. Desiccate
<b>Shipping Conditions</b>	Dry ice
<b>Shipping Instructions</b>	Dry ice

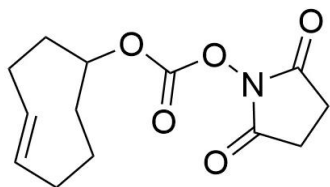
## SELECTED REFERENCES

1. Royzen, M., *et al.* (2008). A Photochemical Synthesis of Functionalized trans-Cyclooctenes Driven by Metal Complexation. *J. AM. CHEM. SOC.*, **130**: 3760-1. [[PubMed](#)]
2. Blackman, M.L., *et al.* (2008). Tetrazine ligation: fast bioconjugation based on inverse-electron-demand Diels-Alder reactivity. *J. AM. CHEM. SOC.*, **130**: 13518-9. [[PubMed](#)]
3. Rahim, M.K., *et al.* (2015). Enhancing Reactivity for Bioorthogonal Pretargeting by Unmasking Antibody-Conjugated trans-Cyclooctenes. *Bioconjugate Chem.*, **26**: 352-60. [[PubMed](#)]
4. Rossin, R., *et al.* (2013). Highly Reactive trans-Cyclooctene Tags with Improved Stability for Diels–Alder Chemistry in Living Systems. *Bioconjugate Chem.*, **24**: 1210-7. [[PubMed](#)]

## DOCUMENTS

- [Safety Data Sheet](#)
- [Download CoA](#)
- [Datasheet](#)

## GALLERY IMAGES



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