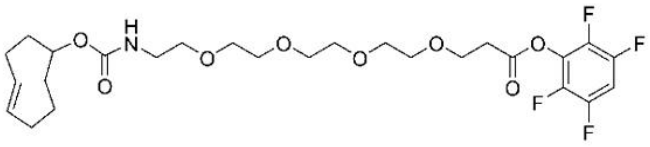
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TCO-PEG4-TFP ESTER

SKU: CCT-1398



DESCRIPTION

TCO-PEG4-TFP Ester is an amine-reactive, labeling reagent used to modify proteins, antibodies, and other amine-containing biopolymers. The hydrophilic polyethylene glycol (PEG) spacer arm imparts water solubility and provides a long and flexible connection that minimizes steric hindrance involved with ligation to complementary tetrazine-containing molecules.

The N-hydroxysuccinimide (NHS, also known as HOSu) esters of carboxylic acids are the most widely used reactive esters for modifying amine-containing peptides and proteins. NHS esters are notorious for having a short, pH-dependent half-life in aqueous media. A 2,3,5,6-tetrafluorophenol (TFP) is a different type of reactive ester that displays much better stability toward hydrolysis in aqueous media resulting in more efficiency and better reproducible labeling of biopolymers. TFP ester of carboxylic acids react with primary amines at the same rate as NHS ester forming covalent amide bond that is identical to one formed by the reaction between primary amines and NHS esters or sulfo-NHS esters.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	565.56
Appearance	Colorless to slightly yellow oil
Chemical Formula	C26H35F4NO8
Purity	>95% (HPLC)
Unit Size	4 x 2 mg, 10 mg, 25 mg, 100 mg

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

Solubility	DMSO, DMF, THF, Acetonitrile, Dichloromethane
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Dry ice
Shipping Instructions	Dry ice

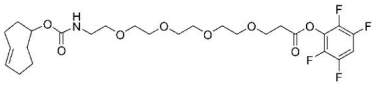
SELECTED REFERENCES

1. Kang, D., *et al.* (2021). Bioorthogonal Retro-Cope Elimination Reaction of N, N-Dialkylhydroxylamines and Strained Alkynes. *J Am Chem Soc.*, **143 (15)**, 5616-5621. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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