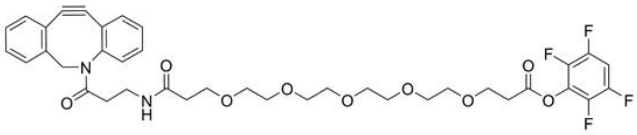
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DBCO-PEG5-TFP ESTER

SKU: CCT-1260



DESCRIPTION

DBCO-PEG5-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 provides a long and flexible connection that minimizes steric hindrance involved with ligation to complementary azide-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.

DBCO reagents are the most commonly used substrates for strain-promoted azide-alkyne click chemistry. DBCO compounds react with azide functionalized compounds or biomolecules without the need for a Cu(I) catalyst to result in a stable triazole linkage.

SPECIFICATIONS

CAS Number	N/A

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

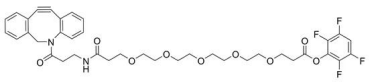
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Molecular Weight	744.27
Appearance	Viscous oil
Chemical Formula	C38H40F4N2O9
Purity	>95% (HPLC)
Unit Size	4 x 2 mg, 10 mg, 25 mg, 100 mg,
Solubility	DMF, DMSO, DCM, THF, Chloroform
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Frozen
Shipping Instructions	Frozen

DOCUMENTS

- Safety Data Sheet
- Download CoA
- User Guide
- Datasheet

GALLERY IMAGES



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