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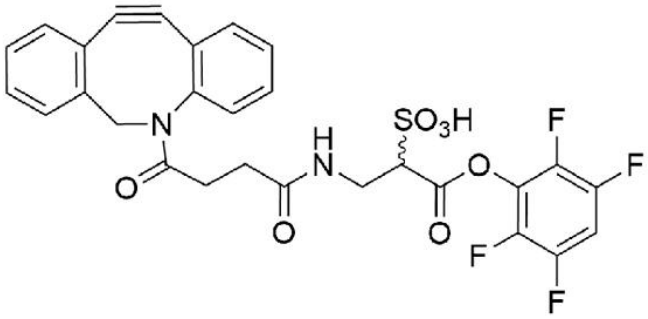
SULFO DBCO-TFP ESTER

SKU: CCT-1400



Description

Sulfo DBCO-TFP Ester is a water-soluble, amine-reactive labeling reagent that enables simple and efficient incorporation of Sulfo DBCO moiety onto amine-containing molecules. The hydrophilic, sulfonated spacer arm greatly improves water solubility of DBCO derivatized molecules, in many cases making them completely soluble in aqueous media. A short spacer arm adds minimal mass to modified molecules.

2,3,5,6-tetrafluorophenyl (TFP) esters is another type of carboxylic acid derivative that react with primary amines forming covalent amide bond. The amine linkage bond is identical to one formed by the reaction between primary amines and NHS esters or sulfo-NHS esters. However, in most cases, TFP ester displays much better stability toward hydrolysis in aqueous media resulting in more efficiency and better reproducible labeling of biopolymers.

DBCO reagents are the most commonly used substrates for copper-free click chemistry reactions. 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

Unit Size	10 mg, 25 mg, 100 mg, 500 mg
Molecular weight	604.53
Chemical composition	C28H20F2N2O7S
CAS	2268816-76-6
Solubility	DMSO, DMF, DCM, THF, Chloroform, Water

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Purity	>95% (HPLC)
Appearance	White to slightly grey amorphous solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
