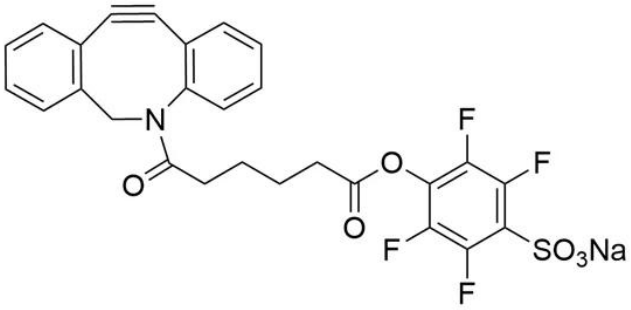
www.vectorlabs.com
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DBCO-STP ESTER

SKU: CCT-1259



DESCRIPTION

DBCO STP Ester is an amine-reactive, water-soluble labeling reagent used to modify proteins, antibodies, and other amine-containing biopolymers in aqueous media. DBCO STP Ester undergoes hydrolysis in aqueous media at much slower rate compared to compared to DBCO-*Sulfo* Ester allowing for more efficient labeling of biomolecules in aqueous media.

4-Sulfo-2,3,5,6-tetrafluorophenyl (STP) 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, STP ester displays much better stability toward hydrolysis in aqueous media resulting in more efficiency and better reproducible labeling of biopolymers.

DBCO reagents, also known as ADIBO or DIBAC, are the most commonly used substrates for strain-promoted copper-free azide-alkyne 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.

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SPECIFICATIONS

CAS Number	N/A
Molecular Weight	583.49
Appearance	White to slightly grey crystalline to amorphous solid
Chemical Formula	C27H18N4NaO6S
Purity	>95% (HPLC)
Unit Size	10 mg, 25 mg, 100 mg, 500 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

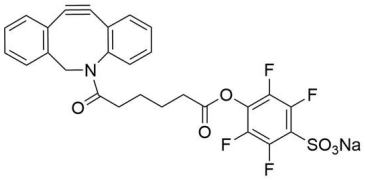
SELECTED REFERENCES

1. Meyer, A.M., *et al.* (2020). Programmable Assembly of Iron Oxide Nanoparticles Using DNA Origami. *Nano Lett.*, **20(4)**, 2799-805. [PubMed]

DOCUMENTS

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

GALLERY IMAGES



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