

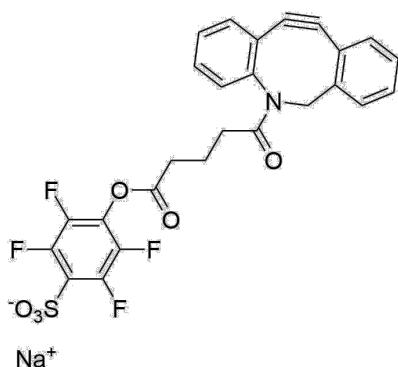
DBCO-STP ester

<http://www.lumiprobe.com/p/dbco-stp-ester>

Dibenzocyclooctyne sulfotetrafluorophenyl ester (DBCO-STP ester) is a water-soluble reagent that can be used for the modification of peptides, antibodies, proteins, and other molecules containing the $-NH_2$ group.

STP esters are hydrolyzed much more slowly than NHS esters, thus allowing efficient biomolecule modification in the aqueous medium.

The dibenzocyclooctyne (DBCO) moiety, which is also known as ADIBO or DIBAC, is the most common substrate for copper-free click chemistry reactions that are promoted by ring strain. In this reaction in the absence of a Cu(I) catalyst, DBCO derivatives react with biomolecules functionalized by the azide group to result in stable triazoles.



Structure of DBCO-STP ester

General properties

Appearance: beige powder

Molecular weight: 569.46

Molecular formula: $C_{26}H_{16}NF_4O_6SNa$

Solubility: good in water, DCM, DMF, DMSO

Quality control: NMR 1H , HPLC-MS (95%)

Storage conditions: Storage: 12 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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