

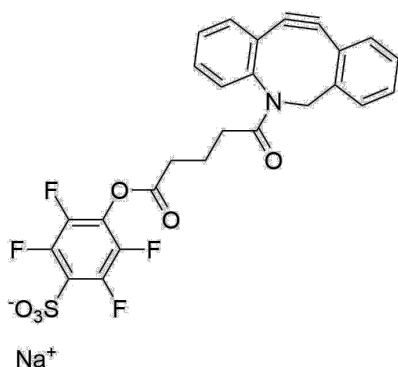
## DBCO-STP ester

<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<sub>2</sub> 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<sub>26</sub>H<sub>16</sub>NF<sub>4</sub>O<sub>6</sub>Na

Solubility: good in water, DCM, DMF, DMSO

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

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

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.