Product Information

DBCO/STP PEG reagent, DBCO STP ester, Purity 95%

Cat. No.: X24-03-YW0311

Size: 10 mg; 25 mg; 50 mg; 100 mg

CAS Number: 2268816-75-5

PubChem CID: 164577358

Product Information

Description

InChl Key

Form

Purity

Canonical SMILES

Synonym: 2268816-75-5; DBCO-STP ester

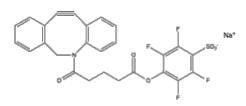
This product is for research use only and is not intended for diagnostic use.

ZBRZLKRKJIBISC-UHFFFAOYSA-M

-])F)F.[Na+]

Solid

95%



·	ester group. This compound is specifically designed for the modification of peptides, antibodies, proteins, and other molecules containing amino groups. The STP esters offer a superior alternative to conventional <i>N</i> -hydroxysuccinimide (NHS) esters for coupling reactions in aqueous environments. Meanwhile, the DBCO group is widely recognized for its utility in copper-free Click Chemistry reactions, owing to its strain-promoted high energy.
Molecular Weight	546.5
Molecular Formula	$C_{26}H_{16}F_4NO_6S$
Functional Group 1	DBCO
Functional Group 2	STP
Functional Group 3	None
Reactive Group 1	NHS
IUPAC Name	Sodium;4-[6-(2-Azatricyclo[10.4.0.0 ^{4,9}] hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-6-oxohexanoyl]oxy-2,3,5,6-tetrafluorobenzenesulfo nate
InChi	InChI=1S/C27H19F4NO6S.Na/c28-22-24(30)27(39(35,36)37)25(31)23(29)26(22)38-21(34)12-6-5-1 1-20(33)32-15-18-9-2-1-7-16(18)13-14-17-8-3-4-10-19(17)32;/h1-4,7-10H,5-6,11-12,15H2,(H,35,36, 37);/q;+1/p-1

DBCO STP ester is a versatile water-soluble reagent featuring a terminal DBCO group and a STP

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Storage	Store at -20°C
	perturbation to delicate biological systems.
	functionality enables efficient coupling reactions under mild conditions, ensuring minimal
	and antibodies, where maintaining their native conformation and activity is crucial. The STP ester
	aqueous environments makes it particularly suitable for applications involving peptides, proteins,
	facilitating the site-specific labeling and functionalization of biomolecules. Its compatibility with
Applications	DBCO STP ester can be used as a valuable tool in bioconjugation and chemical biology studies,
Identity	Confirmed by NMR.
Solubility	Water, DCM, DMF, DMSO