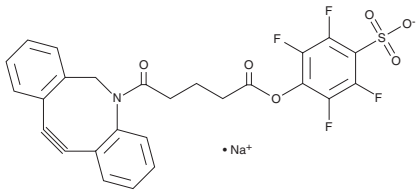
PRODUCT INFORMATION

DBCO STP ester

Item No. 45972

Synonym:	Dibenzocyclooctyne STP ester
MF:	$C_{26}H_{16}F_4NO_6S \bullet Na$
FW:	569.5
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DBCO STP ester is supplied as a solid. A stock solution may be made by dissolving the DBCO STP ester in the solvent of choice, which should be purged with an inert gas. DBCO STP ester is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

DBCO STP ester is an amine-reactive bioconjugation reagent that contains a terminal dibenzocyclooctyne (DBCO) group. It has been used to attach DBCO to the primary amines of a monoclonal antibody for use in strain-promoted alkyne-azide cycloaddition (SPAAC), a type of copper-free click chemistry.[1]

Reference

1. Pringle, T.A. and Knight, J.C. The effects of buffer, pH, and temperature upon SPAAC reaction rates. *Org. Biomol. Chem.* **23(10)**, 2432-2438 (2025).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM