



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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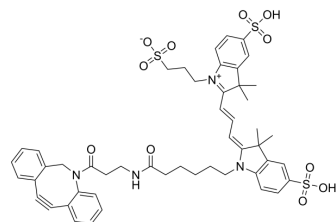
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## DBCO-Cy3

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-D1069                                                                                       |
| CAS No.:           | 1782950-79-1                                                                                   |
| Molecular Formula: | C <sub>90</sub> H <sub>54</sub> N <sub>4</sub> O <sub>11</sub> S <sub>3</sub>                  |
| Molecular Weight:  | 983.18                                                                                         |
| Target:            | Fluorescent Dye                                                                                |
| Pathway:           | Others                                                                                         |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (63.57 mM; Need ultrasonic)  
H<sub>2</sub>O : 50 mg/mL (50.86 mM; Need ultrasonic)

|                           | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |
|---------------------------|--------------------------|------|-----------|-----------|------------|
|                           |                          |      |           |           |            |
| Preparing Stock Solutions | 1 mM                     |      | 1.0171 mL | 5.0855 mL | 10.1711 mL |
|                           | 5 mM                     |      | 0.2034 mL | 1.0171 mL | 2.0342 mL  |
|                           | 10 mM                    |      | 0.1017 mL | 0.5086 mL | 1.0171 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

DBCO-Cy3 (DBCO-Sulfo-Cy3) is the derivative of Cyanine3 fluorophore, a pH insensitive from pH (4-10) orange fluorescent dye with excitation maximum 555 nm and emission maximum of 580nm. DBCO-Cy3 has fast reaction kinetics and good stability, and is productive to use in many standard fluorescent instrumentations. DBCO-Cy3 is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.

#### IC<sub>50</sub> & Target

Orange fluorescent dye

#### In Vitro

DBCO-Cy3 exhibits less background than TAMRA and most other commonly used fluorescent dyes. DBCO-Cy3 can be conjugated to antibodies, peptides, and proteins, it can be excited using the 532 nm or 555 nm laser line and visualized with TRITC filter sets.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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