Cy5-DBCO

Cat. No.: HY-D1068

CAS No.: 1564286-24-3

Molecular Formula: $C_{52}H_{56}N_4O_{11}S_3$

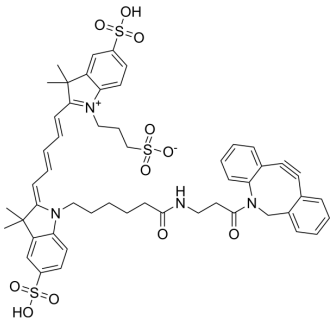
Molecular Weight: 1009.22

Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (61.93 mM; Need ultrasonic)

H_2O : ≥ 10 mg/mL (9.91 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	0.9909 mL	4.9543 mL	9.9086 mL
5 mM	0.1982 mL	0.9909 mL	1.9817 mL
10 mM	0.0991 mL	0.4954 mL	0.9909 mL

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

BIOLOGICAL ACTIVITY

Description

Cy5-DBCO (DBCO-Sulfo-Cy5) is a near-infrared (NIR)red fluorescent dye with $\lambda_{abs}$and λ_{em} of 646nm and 670 nm, respectively. Cy5-DBCO (DBCO-Sulfo-Cy5) is not suitable for staining intracellular components of permeabilezed cell, it may exhibits a high background. Cy5-DBCO 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_{50} & Target

Red fluorescent dye

In Vitro

Cy5-DBCO (DBCO-Sulfo-Cy5) reacts with azides via a copper-free “click chemistry” reaction and forms a stable triazole and does not need Cu-catalyst or elevated temperatures.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA