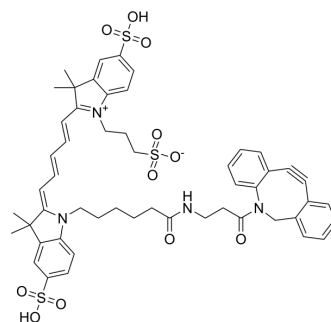


Cy5-DBCO

Cat. No.:	HY-D1068
CAS No.:	1564286-24-3
Molecular Formula:	C ₅₂ H ₅₆ N ₄ O 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)
H₂O : 10 mg/mL (9.91 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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 λ_{abs} and λ_{em} of 646nm and 670 nm, respectively. Cy5-DBCO (DBCO-Sulfo-Cy5) is not suitable for staining intracellular components of permeabilized cell, it may exhibit 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.

IC₅₀ & 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.

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