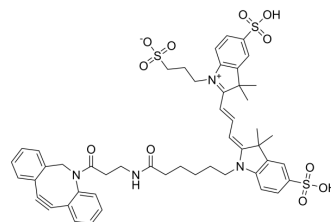


DBCO-Cy3

Cat. No.:	HY-D1069
CAS No.:	1782950-79-1
Molecular Formula:	C ₅₀ H ₅₄ N ₄ O ₁₁ S ₃
Molecular Weight:	983.18
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°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 (63.57 mM; Need ultrasonic)
H₂O : 50 mg/mL (50.86 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	1.0171 mL	5.0855 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.

IC₅₀ & 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.

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

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