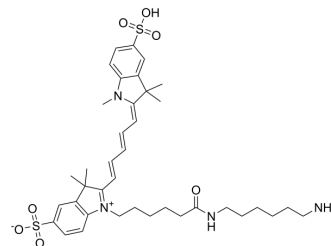


## Sulfo-Cy5 amine

Cat. No.:	HY-D1375
CAS No.:	2183440-44-8
Molecular Formula:	C <sub>38</sub> H <sub>52</sub> N <sub>4</sub> O <sub>7</sub> S <sub>2</sub>
Molecular Weight:	740.97
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (67.48 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.3496 mL	6.7479 mL	13.4958 mL
5 mM	0.2699 mL	1.3496 mL	2.6992 mL
10 mM	0.1350 mL	0.6748 mL	1.3496 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Sulfo-Cy5 amine is a dye derivative of Cyanine 5 (Cy5) (HY-D0821) bearing an amine group. The sulfonate ion increases the water solubility of the compound, making it suitable for use in aqueous solutions. Cy5 is a near-infrared fluorescent dye commonly used in biolabeling and cell imaging. The amine functionality of Sulfo-Cy5 amine can react with carboxyl groups to form covalent bonds. Sulfo-Cy5 amine can bind to biomolecules such as proteins and antibodies to track their location and dynamic changes in biological samples.

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

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