

CY5

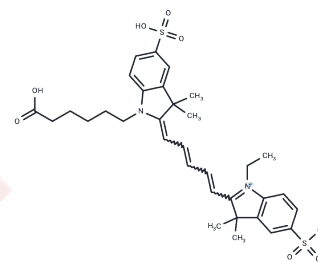
Chemical Properties

CAS No. : 146368-11-8

Formula: C₃₃H₄₀N₂O₈S₂

Molecular Weight: 656.81

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cy5 (Sulfo-Cyanine5) is a phalloidin dye used to label amino groups in peptides, proteins and oligonucleotides.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 100 mg/mL (152.25 mM), Sonification is recommended. H ₂ O: 15 mg/mL (22.84 mM), Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.02 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5225 mL	7.6126 mL	15.2251 mL
5 mM	0.3045 mL	1.5225 mL	3.045 mL
10 mM	0.1523 mL	0.7613 mL	1.5225 mL
50 mM	0.0305 mL	0.1523 mL	0.3045 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ptaszek M. Rational design of fluorophores for in vivo applications. *Prog Mol Biol Transl Sci.* 2013;113:59-108.

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Shindy, H. A. (2017). Fundamentals in the chemistry of cyanine dyes: A review. *Dyes and Pigments*, 145, 505-513.

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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