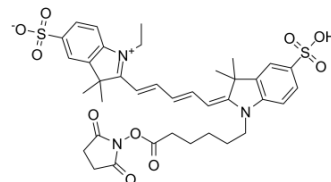


## CY5-SE

<b>Cat. No.:</b>	HY-D0819
<b>CAS No.:</b>	146368-14-1
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>43</sub> N <sub>3</sub> O <sub>10</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	753.88
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°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 : 25 mg/mL (33.16 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3265 mL	6.6324 mL	13.2647 mL
	5 mM	0.2653 mL	1.3265 mL	2.6529 mL
	10 mM	0.1326 mL	0.6632 mL	1.3265 mL

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

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (3.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (3.32 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

Cy5-SE (Cy5 NHS Ester) is a reactive dye for the labeling of amino-groups in peptides, proteins, and oligonucleotides. This dye requires small amount of organic co-solvent (such as DMF or DMSO) to be used in labeling reaction. This reagent is ideal for very cost-efficient labeling of soluble proteins, as well as all kinds of peptides and oligonucleotides. This reagent also works well in organic solvents for small molecule labeling. Excitation (nm):649, Emission (nm): 670.

## CUSTOMER VALIDATION

- ACS Appl Mater Interfaces. 2019 Jan 16;11(2):1766-1781.

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- Carbohyd Polym. 2020 May 1;235:115983.
  - J Nanobiotechnology. 2018 Mar 16;16(1):23.
  - Biomacromolecules. 2019 Jan 14;20(1):469-477.
  - Research Square Preprint. 2021 Jan.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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