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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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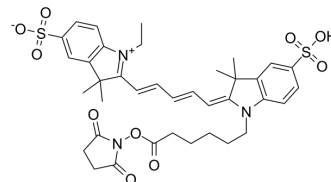
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CY5-SE

Cat. No.:	HY-D0819
CAS No.:	146368-14-1
Molecular Formula:	C ₃₇ H ₄₃ N ₃ O ₁₀ S ₂
Molecular Weight:	753.88
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-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)
 H₂O : ≥ 5.88 mg/mL (7.80 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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: Saline
Solubility: 25 mg/mL (33.16 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- 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.

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified)

according to your specific needs).

Conjugation of SELP Analogues with Cy5-SE.

1. 1 mL of each 100 µg/mL SELP solution in 100 mM sodium bicarbonate buffer (pH 8.3) is mixed with 10 µL of 1.2 mg/mL Cy5 mono NHS-ester in 10% DMSO and incubates for 2 hours on ice.

2. To quench the reaction, 50 µL of 1 M Tris-HCl (pH 8.0) is added to the reaction solution.

3. Reaction mixtures are loaded onto 1.5 mL Sephadex G-25 columns, and Cy5-conjugated SELPs are eluted by centrifugation for 3 minutes at 1050g^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Funct Mater. 2023 Sep 15.
- Adv Sci (Weinh). 2023 Jun 25;e2301592.
- J Nanobiotechnology. 2018 Mar 16;16(1):23.
- Nano Res. 29 June 2021.
- ACS Appl Mater Interfaces. 2019 Jan 16;11(2):1766-1781.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jeon HY, et al. Array-Based High-Throughput Analysis of Silk-Elastinlike Protein Polymer Degradation and C-Peptide Release by Proteases. Anal Chem. 2016;88(10):5398-5405.

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

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