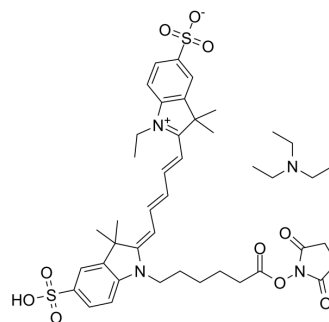


CY5-SE triethylamine salt

Cat. No.:	HY-D0819A
CAS No.:	1497420-70-8
Molecular Formula:	C ₄₃ H ₅₈ N ₄ O ₁₀ S ₂
Molecular Weight:	855.07
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 : 125 mg/mL (146.19 mM; Need ultrasonic)
 H₂O : ≥ 5.88 mg/mL (6.88 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1695 mL	5.8475 mL	11.6949 mL
	5 mM	0.2339 mL	1.1695 mL	2.3390 mL
	10 mM	0.1169 mL	0.5847 mL	1.1695 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 (29.24 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (2.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cy5-SE (Cy5 NHS Ester) triethylamine salt is a reactive dye for the labeling of amino-groups in peptides, proteins, and oligonucleotides. Cy5-SE triethylamine salt is ideal for very cost-efficient labeling of soluble proteins, as well as all kinds of peptides and oligonucleotides (Ex=649 nm; Em=670 nm)^[1].

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 μ L 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 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.
- Carbohydr Polym. 2020 May 1;235:115983.

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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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