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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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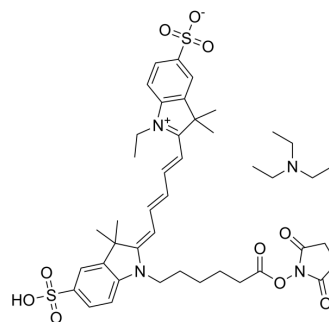
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## CY5-SE triethylamine salt

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

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	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)<sup>[1]</sup>.

#### 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  $\mu$ 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<sup>[1]</sup>.
- 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.

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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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