

## CY5 triethylamine salt

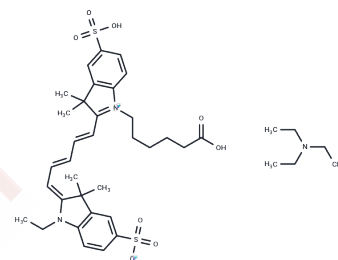
### Chemical Properties

CAS No. :

Formula: C39H55N3O8S2

Molecular Weight: 758

Storage: Keep away from direct sunlight  
 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 triethylamine salt is a water-soluble dye, Excitation (nm):649, Emission (nm): 670.
Targets(IC50)	Others
In vitro	<p><b>Instructions</b></p> <ol style="list-style-type: none"> <li><b>Solvent selection:</b> CY5 triethylamine salt is water-soluble and is usually dissolved in deionized water, distilled water or appropriate buffer solutions. The common concentration range is 1-10 <math>\mu</math>M, and the specific concentration can be adjusted according to experimental requirements.</li> <li><b>Labeling reaction:</b> CY5 can be used to label antibodies, proteins, nucleic acids or other biomolecules. The common labeling method is to react with the target molecule through the active group. Mix the CY5 solution with the molecule to be labeled (such as an antibody or nucleic acid). The reaction conditions are generally carried out at room temperature and the reaction time is usually 1-2 hours.</li> <li><b>Reaction termination and purification:</b> After the reaction, dialysis or gel filtration columns can be used to remove unbound dyes to ensure that the labeled molecules are pure and avoid background signals.</li> <li><b>Detection and analysis:</b>  <p><b>Fluorescence microscopy:</b> Use a fluorescence microscope to observe the labeled samples. The excitation wavelength of CY5 is 649 nm and the emission wavelength is 667 nm.</p> <p><b>Flow cytometry:</b> Fluorescence signals are analyzed by flow cytometry to detect the labeling of cells.</p> <p><b>Fluorescence spectrophotometer:</b> Detect the fluorescence intensity of the labeled sample, usually at 649 nm excitation and 667 nm emission.</p> </li> </ol> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>CY5 is light-sensitive and should be used away from strong light, especially during the labeling reaction.</li> <li>When storing, it is recommended to keep CY5 in a dark place to prolong its fluorescence properties.</li> </ol>

## A DRUG SCREENING EXPERT

In vitro	The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.
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### Solubility Information

Solubility	DMSO: 27 mg/mL (35.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3193 mL	6.5963 mL	13.1926 mL
5 mM	0.2639 mL	1.3193 mL	2.6385 mL
10 mM	0.1319 mL	0.6596 mL	1.3193 mL
50 mM	0.0264 mL	0.1319 mL	0.2639 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

Chen L, et al. Negatively Charged Carbon Dots Employed Symplastic and Apoplastic Pathways to Enable Better Plant Delivery than Positively Charged Carbon Dots. *ACS Nano*. 2024 Aug 27;18(34):23154-23167.

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