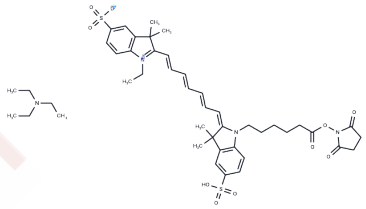
Data Sheet (Cat.No.T18954L)

TargetMol

CY7-SE Triethylamine (477908-53-5(free acid))

Chemical Properties



CAS No. :

Formula: C45H60N4O10S2

Molecular Weight: 881.11

Storage: Store at low temperature,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	CY7-SE Triethylamine is a fluorescence labeling agent (Ex=700-770 nm,Em=790 nm) used for labeling proteins, peptides, antibodies, and oligonucleotides.
Targets(IC50)	Others
In vitro	Instructions for use I. Solution preparation: Prepare a 10 mM stock solution with DMSO. Mix well by pipetting or vortexing. I. Protein preparation 1. For the best labeling effect, prepare the protein (antibody) concentration to 2 mg/mL. 2. The pH value of the protein solution is 8.5±0.5. If the pH value is lower than 8.0, 1M sodium bicarbonate should be used for adjustment; 3. If the protein concentration is lower than 2mg/mL, the labeling efficiency will be greatly reduced. For optimal labeling efficiency, the recommended final protein concentration range is 2-10 mg/mL; 4. The protein must be in a buffer that does not contain primary amines (such as Tris or glycine) and ammonium ions, otherwise it will affect the labeling efficiency; 3. Calculation of dye dosage: The amount of CY7-SE Triethylamine required for the reaction depends on the amount of protein to be labeled, and the optimal molar ratio is about 10; 4. Run the coupling reaction 1) Slowly add an appropriate amount of freshly prepared 10 mg/mL CY7-SE Triethylamine to 0.5 mL of protein sample In the solution, gently shake to mix, then briefly centrifuge and collect the sample at the bottom of the reaction tube. Do not mix to avoid denaturation and inactivation of the protein sample. 2) Place the reaction tube in a dark place and gently incubate at room temperature for 60 minutes. 10-15 minutes, gently reverse the reaction. 5. Purify the conjugate The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1349 mL	5.6747 mL	11.3493 mL
5 mM	0.227 mL	1.1349 mL	2.2699 mL
10 mM	0.1135 mL	0.5675 mL	1.1349 mL
50 mM	0.0227 mL	0.1135 mL	0.227 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

Ptaszek M. Rational design of fluorophores for in vivo applications. Prog Mol Biol Transl Sci. 2013;113:59-108.