

5(6)-ROX

Chemical Properties

CAS No. : 198978-94-8

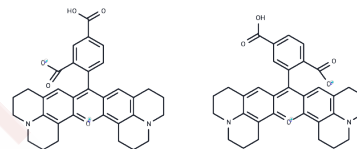
Formula: C66H60N4O10

Molecular Weight: 1069.2

Storage: Keep away from direct sunlight

Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	5(6)-ROX (5(6)-Carboxy-X-rhodamine) is a nucleic acid fluorescent label and rhodamine dye with Ex/Em=570/595 nm. It serves as a correction dye for real-time quantitative PCR and is widely applied in DNA sequencing and fluorescent labelling.
Targets(IC50)	Others, Autophagy

Solubility Information

Solubility	DMSO: 16 mg/mL (14.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1.5 mg/mL (1.4 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9353 mL	4.6764 mL	9.3528 mL
5 mM	0.1871 mL	0.9353 mL	1.8706 mL
10 mM	0.0935 mL	0.4676 mL	0.9353 mL
50 mM	0.0187 mL	0.0935 mL	0.1871 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

Wang G, et al. Optimization of 6-carboxy-X-rhodamine concentration for real-time polymerase chain reaction using molecular beacon chemistry. Can J Microbiol. 2007 Mar;53(3):391-7.

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