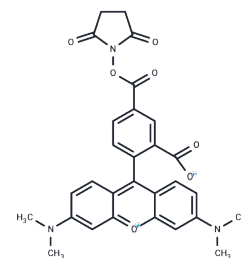


5-TAMRA-SE

Chemical Properties

CAS No. :	150810-68-7
Formula:	C ₂₉ H ₂₅ N ₃ O ₇
Molecular Weight:	527.53
Storage:	Keep away from direct sunlight, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	5-TAMRA-SE, an amine-reactive fluorescent agent, forms conjugates that produce bright, pH-insensitive orange-red fluorescence (approximate excitation/emission maxima ~546/579) and exhibit good photostability.
Targets(IC50)	Others
Cell Research	<p>Instructions</p> <ol style="list-style-type: none"> Dissolving reagent: 5-TAMRA-SE is usually provided in solid form and can be dissolved in anhydrous DMSO or DMF at a recommended concentration of 1-10 mM. It can be diluted to an appropriate concentration as needed. Labeling reaction: <ol style="list-style-type: none"> Mix the 5-TAMRA-SE solution with the target molecule containing an amine group (such as protein, antibody, etc.). Generally, the pH of the reaction should be kept in the range of 8.0-9.0 to ensure the optimal reactivity of the NHS ester. The reaction time is generally 30 minutes to 1 hour, and the reaction is carried out at room temperature. The labeling reaction can remove unreacted fluorescent dye by centrifugation or remove excess dye by dialysis. Removal of unreacted dye: After the reaction is completed, use methods such as dialysis or gel filtration to remove unreacted fluorescent dye. This step helps to avoid interference from background signals. Storage: The labeled molecules can be stored at 4°C and avoid long-term exposure to strong light to avoid affecting fluorescence stability. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 1.32 mg/mL (2.5 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	1.8956 mL	9.4781 mL	18.9563 mL
5 mM	0.3791 mL	1.8956 mL	3.7913 mL
10 mM	0.1896 mL	0.9478 mL	1.8956 mL
50 mM	0.0379 mL	0.1896 mL	0.3791 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

Huang M, et al. Fluorescently Labeled α -Conotoxin TxID, a New Probe for $\alpha 3\beta 4$ Neuronal Nicotinic Acetylcholine Receptors. *Mar Drugs*. 2022 Aug 12;20(8):511.

Ye QY, et al. [Mesenchymal stem cells derived apoptotic extracellular vesicles attenuate pro-inflammatory macrophages induced by Porphyromonas gingivalis lipopolysaccharide]. *Zhonghua Kou Qiang Yi Xue Za Zhi*. 2021 Aug 9;56(8):791-798. Chinese.

Dada OO, Huge BJ, Dovichi NJ. Simplified sheath flow cuvette design for ultrasensitive laser induced fluorescence detection in capillary electrophoresis. *Analyst*. 2012 Jul 7;137(13):3099-101.

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