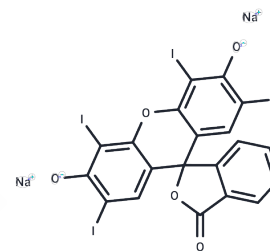


Erythrosine B

Chemical Properties

CAS No. :	16423-68-0
Formula:	C ₂₀ H ₆ I ₄ Na ₂ O ₅
Molecular Weight:	879.86
Storage:	Keep away from direct sunlight 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	Erythrosine B (Erythrosine I) , a tetraiodofluorescein, is served as a red coloring in some foods (cherries, fish), as a disclosure of dental plaque, and as a stain of some cell types. Its structural was similar to thyroxine.
Targets(IC50)	Others
Cell Research	<p>Instructions</p> <p>I. Solution preparation</p> <ol style="list-style-type: none"> 1. Mother solution preparation: Dissolve Erythrosine B in an appropriate solvent, such as anhydrous DMSO, ethanol or water, to prepare a stock solution of the required concentration. The recommended concentration of the stock solution is 10-100 mM for subsequent dilution. 2. Working solution preparation: Dilute the mother solution into the working solution to be used according to the experimental purpose. <p>II. Operation steps</p> <p>Cell staining</p> <ol style="list-style-type: none"> 1. Culture the cells to an appropriate density. 2. Wash the cells with PBS and remove the culture medium. 3. Add the diluted Erythrosine B solution to the cells and incubate at 37°C in the dark for 15-30 minutes. 4. After incubation, wash the cells 3 times with PBS to remove unbound dye. 5. Fluorescence detection: Use a fluorescence microscope or flow cytometer for detection. The excitation wavelength of Erythrosine B is about 530 nm and the emission wavelength is about 550 nm. <p>Precautions:</p> <ol style="list-style-type: none"> 1) Wear gloves during operation to avoid contact between skin or mucous membranes and reagents. 2) Avoid light exposure during incubation and storage to prevent fluorescence quenching. 3) After staining, fluorescence detection and analysis should be performed immediately. <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: 60 mg/mL (68.19 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: 2.5 mg/mL (2.84 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	1.1365 mL	5.6827 mL	11.3654 mL
5 mM	0.2273 mL	1.1365 mL	2.2731 mL
10 mM	0.1137 mL	0.5683 mL	1.1365 mL
50 mM	0.0227 mL	0.1137 mL	0.2273 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

Szabelski M, Ilijev D, Sarkar P, Luchowski R, Gryczynski Z, Kapusta P, Erdmann R, Gryczynski I. Collisional quenching of erythrosine B as a potential reference dye for impulse response function evaluation. *Appl Spectrosc.* 2009 Mar;63(3):363-8.

Chen W, Wu Y, Zheng M, Gu Q, Zheng Z, Xia X. Establishing an experimental rat model of photodynamically-induced retinal vein occlusion using erythrosin B. *Int J Ophthalmol.* 2014 Apr 18;7(2):232-8.

Chequer FM, et al. Genotoxic and mutagenic effects of erythrosine B, a xanthene food dye, on HepG2 cells. *Food Chem Toxicol.* 2012 Oct;50(10):3447-51.

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