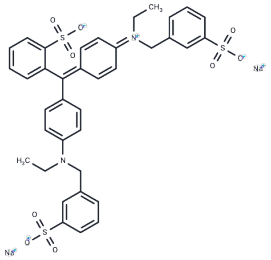
Data Sheet (Cat.No.T7771)

TargetMol

Brilliant Blue FCF

Chemical Properties



CAS No. : 3844-45-9

Formula: C37H34N2Na2O9S3

Molecular Weight: 792.85

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	Brilliant Blue FCF (Erioglaucine disodium salt) is a nontoxic dye for saphenous vein graft marking that abrogates response to injury.
Targets(IC50)	Others
Cell Research	Instructions 1. Solvent selection: Brilliant Blue FCF is soluble in water, usually in deionized or distilled water. The common concentration range is 0.01% to 0.1% (w/v), and the specific concentration depends on the application requirements. 2. Use in experiments: a. Experimental staining: In biological research, Brilliant Blue FCF can be used for laboratory staining, such as as a tracer in electrophoresis experiments to help monitor the migration or separation process of samples. b. pH indicator: In the pH range of 4 to 5, Brilliant Blue FCF shows blue and can be used as an indicator for pH indication of buffers. c. Staining experiments: As a dye, Brilliant Blue FCF can be used to stain cell or tissue samples. The staining method is usually to mix the dye solution with the sample to be stained, incubate for a certain period of time at room temperature, and then detect the staining results by microscope or spectrophotometer. Note: 1) Brilliant Blue FCF should be stored in a dry and cool place to avoid contact with strong acids or bases. 2) For laboratory operations, appropriate protective equipment such as gloves and goggles should be worn. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	H2O: 33.33 mg/mL (42.04 mM),when pH is adjusted to 11 with NaOH. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2613 mL	6.3064 mL	12.6127 mL
5 mM	0.2523 mL	1.2613 mL	2.5225 mL
10 mM	0.1261 mL	0.6306 mL	1.2613 mL
50 mM	0.0252 mL	0.1261 mL	0.2523 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

Altenburger B, Fritzsche J, Langhammer C. Visible Light Spectroscopy of Liquid Solutes from Femto- to Attoliter Volumes Inside a Single Nanofluidic Channel. ACS Nano. 2025 Jan 7.

Jawad AH,et al. Freeze-drying synthesis of mesoporous magnetic grafted chitosan/calcium oxide nanoparticle for remazol brilliant blue dye removal: A statistical optimization. Int J Biol Macromol. 2025 Jan;286:138373.

Ali S, Feng X. Interfacially Cross-Linked Polydopamine/Polybenzimidazole Composite Membranes for Organic Solvent Nanofiltration. ACS Appl Mater Interfaces. 2024 Nov 27;16(47):65517-65528.

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