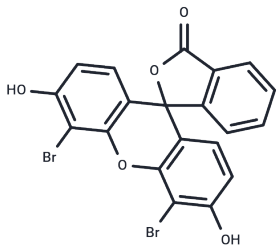
Data Sheet (Cat.No.T20030)

TargetMol

4',5'-Dibromofluorescein

Chemical Properties



CAS No. : 596-03-2

Formula: C20H10Br2O5

Molecular Weight: 490.10

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	4',5'-Dibromofluorescein (Eosinic acid) is a fluorescent dye utilized as a ligand in protein characterization through spectroscopic analysis.
Targets(IC50)	Others
Cell Research	Instructions: a. Solution preparation: The dyeing solution contains 0.05~0.5% 4', 5'-Dibromofluorescein by weight volume, 20~100μM zinc chloride by molar concentration, 5~20% glycerol by volume of the solution, and 30%~70% methanol aqueous solution by volume of the solution; the preferred dyeing time is 8 min, the preferred 4', 5'-Dibromofluorescein concentration is 0.3%, the preferred zinc chloride concentration is 50μM, the preferred glycerol concentration is 10%, and the preferred carbonic acid and preferred methanol concentration is 40%. b. Operation steps: 1. Place the protein sample after SDS-PAGE electrophoresis in the staining solution for 5~15min; 2. Discard the staining solution and add the developer solution for 1~5min, wherein the developer solution is a sodium acetate-acetic acid buffer solution with a molar concentration ratio of 100mM, pH=4.6, and the preferred development time is 2min; 3. After the gel is stained, it can be observed directly with the naked eye on a black background or under a scanner. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 56.2 mg/mL (114.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0404 mL	10.202 mL	20.404 mL
5 mM	0.4081 mL	2.0404 mL	4.0808 mL
10 mM	0.204 mL	1.0202 mL	2.0404 mL
50 mM	0.0408 mL	0.204 mL	0.4081 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

Litai J, et al. 4', 5'-dibromo fluorescein and application of its derivative in protein detection.CN106644657A.[P]. 2017-05-10
Yu D, et al. An ultrasensitive stain for negative protein detection in SDS-PAGE via 4',5'-Dibromofluorescein. J Proteomics. 2017 Aug 8;165:21-25.
Yu D, et al. An ultrasensitive stain for negative protein detection in SDS-PAGE via 4',5'-Dibromofluorescein. J Proteomics. 2017;165:21-25.
Ritchie EE, et al. Ecotoxicity of xanthene dyes and a non-chlorinated bisphenol in soil. Chemosphere. 2013;90(7): 2129-2135.

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