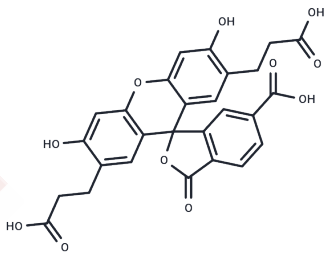
Data Sheet (Cat.No.T18922)

TargetMol

BCECF

Chemical Properties



CAS No. : 85138-49-4

Formula: C54H40O22

Molecular Weight: 520.44

Storage: Keep away from direct sunlight,Store at low temperature
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	BCECF is a pH-sensitive fluorescent dye and a cytosolic pH indicator. It can be used for detecting intracellular pH levels.
Targets(IC50)	Others
In vitro	Methods: 1. 2-20mM BCECF mother liquor was prepared in anhydrous DMSO. 2. Use Hanks or PBS to prepare 5-50μM BCECF dye. 3. Add the configured BCECF dye to the cell culture plate. 1000 μL/well (6-well plate),100 μL/well (96-well plate) or 25 μL/well (384-well plate). 4, Use a fluorescence microscope or fluorescent plate reader to measure at Ex/Em = 490/535 nm or 430/535 nm. Results: The new use of BCECF as a fluorescent marker for hydrogen bodies (the first such marker) was demonstrated. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 50 mg/mL (96.07 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 (4.8 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9215 mL	9.6073 mL	19.2145 mL
5 mM	0.3843 mL	1.9215 mL	3.8429 mL
10 mM	0.1921 mL	0.9607 mL	1.9215 mL
50 mM	0.0384 mL	0.1921 mL	0.3843 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

Scott DA, et al. Analysis of the uptake of the fluorescent marker 2',7'-bis-(2-carboxyethyl)-5(and-6)-carboxyfluorescein (BCECF) by hydrogenosomes in Trichomonas vaginalis. Eur J Cell Biol. 1998 Jun;76(2):139-45.