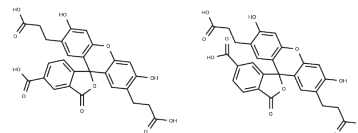


BCECF

Chemical Properties

CAS No. :	85138-49-4
Formula:	C54H40O22
Molecular Weight:	1040.892
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	BCECF is a fluorescent probe commonly used to measure pH. It is a dual-excitation ratiometric pH indicator with a pKa of ~6.98. Measurements of pH are made by determining the ratio of emission intensity, detected at 535 nm when excited at 490 nm versus the emission intensity when excited at 440 nm.
Targets(IC50)	Others
In vitro	The staining is seen in the interior of hydrogenosomes in some instances. It is also observed by microscopy that the K ⁺ /H ⁺ ionophore nigericin does not inhibit hydrogenosomes loading with BCECF.

Solubility Information

Solubility	DMSO: 62.5 mg/mL (120.09 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	0.9607 mL	4.8036 mL	9.6072 mL
5 mM	0.1921 mL	0.9607 mL	1.9214 mL
10 mM	0.0961 mL	0.4804 mL	0.9607 mL
50 mM	0.0192 mL	0.0961 mL	0.1921 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.

Reference

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

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