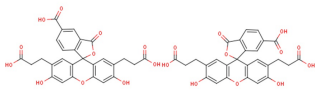
Data Sheet (Cat.No.T18922)

BCECF

Chemical Properties



CAS No.:	85138-49-4
Formula:	C27H20O11
Molecular Weight:	520.44
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	Others: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.921 mL	9.607 mL	19.215 mL
5 mM	0.384 mL	1.921 mL	3.843 mL
10 mM	0.192 mL	0.961 mL	1.921 mL
50 mM	0.038 mL	0.192 mL	0.384 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

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