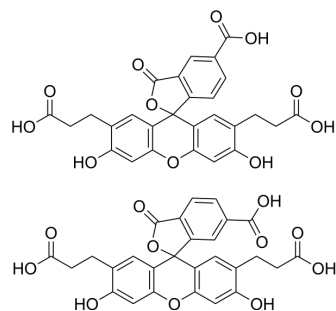


BCECF

Cat. No.:	HY-101882
CAS No.:	85138-49-4
Molecular Formula:	C ₅₄ H ₄₀ O ₂₂
Molecular Weight:	520.44
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (120.09 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.00 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	BCECF is a pH-sensitive fluorescent dye. BCECF allows measurements in the physiological pH range 6.0–8.0. Excitation ratio: 490/440 nm; Emission intensity: 535 nm.
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <ol style="list-style-type: none"> 1. Prepare a 2-20 mM stock solution of BCECF in DMSO and store at -20°C. 2. Prepare a 5-50 μM BCECF dye-loading solution in buffer solutions (Hepes, pH 7.4 or PBS). 3. Add 1000 μL/well (6-well plate), 100 μL/well (96-well plate) or 25 μL/well (384-well plate) BCECF dye-loading solution into the cell plate. 4. Incubate the dye-loading plate in a cell incubator about 30 minutes. 5. Wash and replace the dye-loading solution with buffers. 6. Run the pH assay by monitoring the fluorescence at E_x/E_m = 490/535 nm or 430/535 nm for ratio measurements. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Microorganisms. 2021, 9(9), 1951.

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REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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