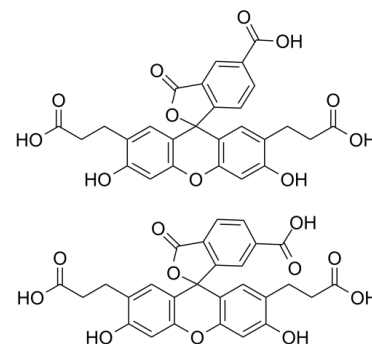


Data Sheet

Product Name:	BCECF
Cat. No.:	CS-7729
CAS No.:	85138-49-4
Molecular Formula:	C ₂₇ H ₂₀ O ₁₁
Molecular Weight:	520.44
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : 62.5 mg/mL (120.09 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Cardiogreen is fluorescent agent with low toxicity has been widely used in medical diagnostics. The emission intensity is detected at 535 nm, when the dye is excited at ~490 nm vs. the emission intensity when excited at 440 nm. **In Vitro:** Fully treated cells show hydrogenosomes with an electron-dense deposit which aggregates to a variable extent. The staining is seen in the interior of hydrogenosomes in some instances. It is also observed by microscopy that the K⁺/H⁺ ionophor nigericin does not inhibit hydrogenosomal loading with BCECF^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Kinase Assay: ^[1]The cells are palced in a petri dish and BCECF present in trichomonads is fixed for electron microscopy. Controns without BCECF loading, without DAB treatment, and without UV illumination are run in parallel. Trichomonads remaine viable during the procedure, except that without BCECF they are dead and disrupted by 4 h. Then the cell are lysed. After lysis, BCECF is added to the lysate to 20 μM, and the lysate is incubated, followed by 3 washes in lysis buffer to remove free dye and resuspension of the pellet in the original volume^[1].

References:

[1]. 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.

CAIndexNames:

Spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'-dipropanoic acid, 5(or 6)-carboxy-3',6'-dihydroxy-3-oxo-

SMILES:

O=C(O)CCC1=CC(C2OC(C4=C2C=CC(C(O)=O)=C4)=O)=C(OC5=C3C=C(CCC(O)=O)C(O)=C5)C=C1O.O=C(O)CCC6=CC(C7OC(C9=C7C=C(C(O)=O)C=C9)=O)=C(OC%10=C8C=C(CCC(O)=O)C(O)=C%10)C=C6O

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

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