

PRODUCT INFORMATION



5-Carboxyfluorescein

Item No. 19581

CAS Registry No.: 76823-03-5

Formal Name: 3',6'-dihydroxy-3-oxo-spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-5-carboxylic acid

Synonym: 5-FAM

MF: $C_{21}H_{12}O_7$

FW: 376.3

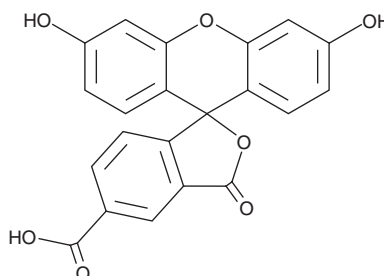
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 209, 225, 277 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

5-Carboxyfluorescein is supplied as a crystalline solid. A stock solution may be made by dissolving the 5-carboxyfluorescein in the solvent of choice. 5-Carboxyfluorescein is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 5-carboxyfluorescein in these solvents is approximately 5, 0.5, and 1 mg/ml, respectively.

5-Carboxyfluorescein is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5-carboxyfluorescein should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 5-Carboxyfluorescein has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

5-Carboxyfluorescein is a single isomer derivative of 5(6)-carboxyfluorescein (Item No. 17172) that can be used to fluorescently label biomolecules through the interaction of carboxylic acid with primary amines.¹ It demonstrates excitation/emission maxima of 492 and 518 nm, respectively.

Reference

1. Fischer, R., Mader, O., Jung, G., *et al.* Extending the applicability of carboxyfluorescein in solid-phase synthesis. *Bioconjugate Chem.* **14**, 653-660 (2003).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM