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]

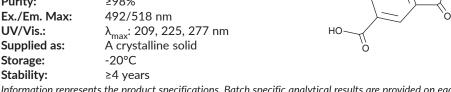
xanthene]-5-carboxylic acid

Synonym: 5-FAM MF: $C_{21}H_{12}O_7$ 376.3 FW: **Purity:** ≥98%

A crystalline solid Supplied as:

Storage: Stability:

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



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, which should be purged with an inert gas. 5-Carboxyfluorescein is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. 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(3), 653-660 (2003).

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

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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