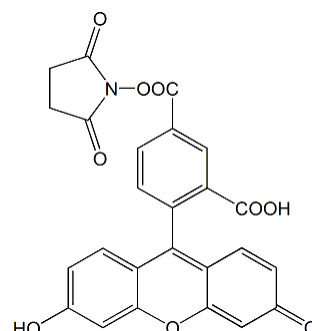


PRODUCT DATA SHEET

General Data

Product Name: **5-Carboxyfluorescein-N-hydroxysuccinimidester**
Synonyms: 5-FAM-SE
Catalog Number: **AF-0105**
CAS RN: 92557-80-7
IUPAC-Name: 2,5-Pyrrolidinedione, 1-[[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H), 9'-[9H]xanthen]-5-yl)carbonyl]oxy]-
Molecular Formula: C₂₅H₁₅NO₉
Molecular Weight: 473.4 g/mol

Structure



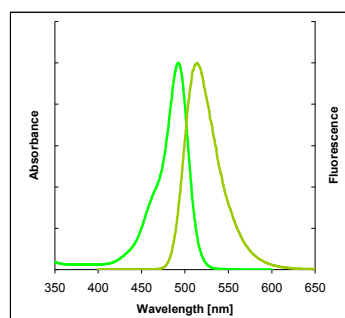
Analytical Data / Properties

Appearance: orange solid
Absorption: 495 nm $\epsilon = 74.000 \text{ M}^{-1}\text{cm}^{-1}$ [in DMSO with 0.01% 5 M NaOH]
Emission: 519 nm $\lambda_{\text{Exc}} = 496 \text{ nm}$ [in DMSO with 0.01% 5 M NaOH]
Solubility: Methanol, DMF, DMSO

The actual absorption and emission spectra of 5-FAM-SE (AF-0105) after coupling will not significantly be different from that represented here [5/6-FAM (F-0101) in PBS pH 7.4].

Absorption and Emission Spectra

Spectra of 5/6-Carboxyfluorescein (F-0101)



Description

Application: The amine-reactive fluorescein derivative is used as a fluorescent derivatization reagent for covalently labeling proteins and alkylaminommodified nucleic acids. In addition to its relatively high absorptivity, excellent fluorescence quantum yield and good water solubility, fluorescein has an excitation maximum that closely matches the 488 nm spectral line of the argon-ion laser, making it the predominant fluorophore for confocal laser scanning microscopy and flow cytometry applications. In addition, fluorescein's protein conjugates are not inordinately susceptible to precipitation.

Shipping: Ambient.

Storage: At -18°C. Keep dry. Protect material from light, especially in solution!

Safety

This substance is not classified as dangerous according to Directive 67/548/EEC and GHS hazard classification according to the Regulation (EU) No. 1272/2008.

Hazard Codes / Hazard Designation: -

Risk phrases / Hazard Statements: -

Safety phrases / Precautionary Statements: -

References

For laboratory use only, not for drug, household or other use.