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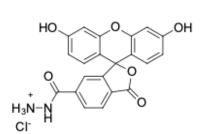
FAM hydrazide, 6-isomer

http://www.lumiprobe.com/p/fam-hydrazide-6

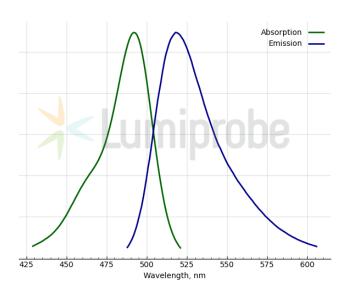
Fluorescein (FAM) is a xanthene dye, a parent of fluorescein dye series. This is a hydrazide derivative for the labeling of carbonyl compounds, aldehydes, and ketones.

Fluorescein is a bright dye that is compatible with a great number of instruments.

Carbohydrates are also often labeled with hydrazides by a protocol involving their oxidation with periodate first, and reacting with dye hydrazide after it.



Structure of 6-FAM hydrazide



FAM absorbance and emission spectra

General properties

Appearance: yellow/orange solid

Mass spec M+ increment: 371.1 Molecular weight: 426.81

CAS number: 2183440-65-3 (hydrochloride); 151890-73-2

Molecular formula: $C_{21}H_{15}N_2CIO_6$

IUPAC name: Spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-6-carboxylic acid, 3',6'-dihydroxy-3-oxo-,

hydrazide, hydrochloride

Solubility: good in DMF, DMSO, alcohols

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 492 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 74000 Emission maximum, nm: 522 Fluorescence quantum yield: 0.93 CF_{260} : 0.22 CF_{280} : 0.17