

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

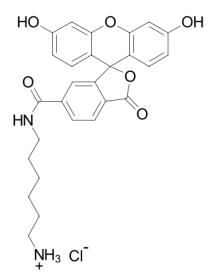
USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

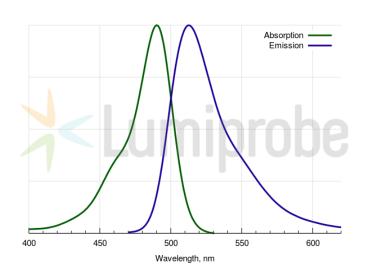
## FAM amine, 6-isomer

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

Fluorescein derivative with amine group, contains pure 6-isomer of the fluorophore. This reagent can be used for the modification of biomolecules by enzymatic transamination. Its aliphatic amine groups also reacts with electrophiles (like activated esters). This amine can be also conjugated with carbonyl compounds (aldehydes and ketones) by means of reductive amination.



Structure of 6-FAM amine



Absorption and emission spectra of FAM

## **General properties**

Appearance: yellow solid Molecular weight: 510.97

CAS number: 2183440-42-6 (hydrochloride), 1313393-44-0

Molecular formula:  $C_{27}H_{27}N_2CIO_6$ 

IUPAC name: 5-aminohexylaminocarbonylfluorescein hydrochloride

Solubility: good in methanol, DMSO, DMF Quality control: NMR <sup>1</sup>H, 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.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for

safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

## **Spectral properties**

Excitation/absorption maximum, nm: 490  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 80000 Emission maximum, nm: 513 Fluorescence quantum yield: 0.93  $CF_{260}$ : 0.20  $CF_{280}$ : 0.17