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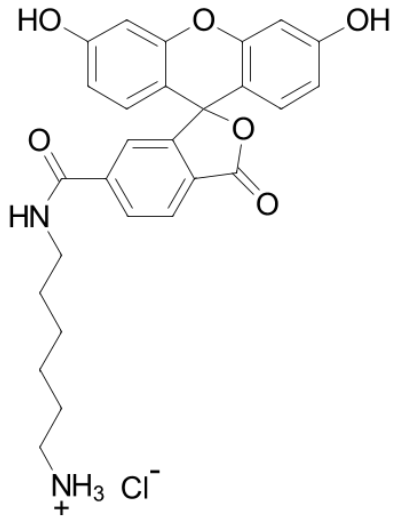
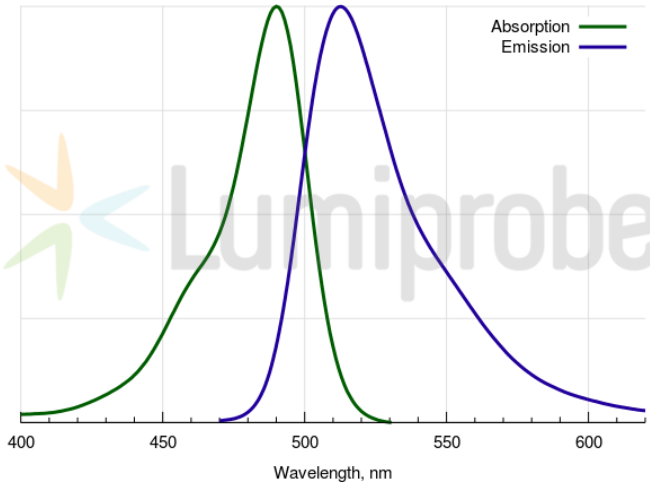
FAM amine, 6-isomer

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:	$C_{27}H_{27}N_2ClO_6$
IUPAC name:	5-aminohexylaminocarbonylfluorescein hydrochloride
Solubility:	good in methanol, DMSO, DMF
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:	490
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	80000
Emission maximum, nm:	513
Fluorescence quantum yield:	0.93
CF_{260}:	0.20
CF_{280}:	0.17