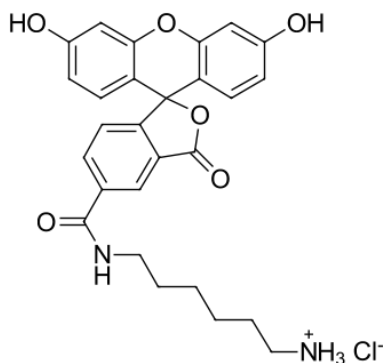
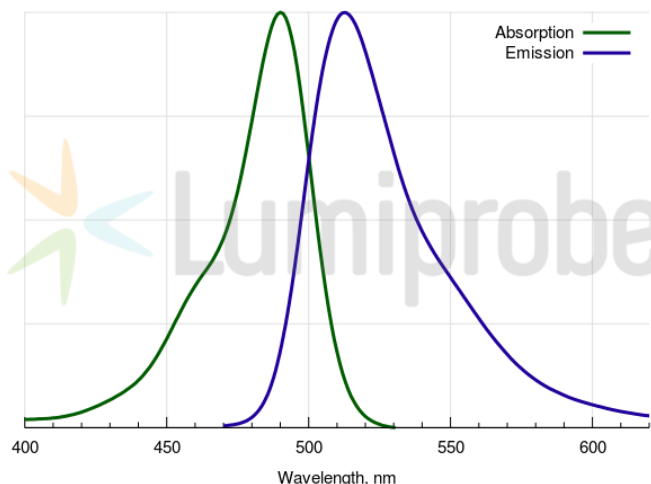


FAM amine, 5-isomer

Fluorescein (FAM) amine, isomerically pure dye (5-isomer). Unlike fluoresceinamine, this reagent contains a linker arm with an aliphatic amine group that is more reactive. It can react with electrophilic reagents like activated esters or epoxides, and be involved in enzymatic transamination.



Structure of 5-FAM amine



FAM absorbance and emission spectra

General properties

Appearance:	yellow solid
Molecular weight:	510.97
CAS number:	2183440-41-5 (hydrochloride), 138589-19-2
Molecular formula:	$C_{27}H_{27}N_2ClO_6$
IUPAC name:	6-aminohexylaminocarbonylfluorescein hydrochloride
Solubility:	good in methanol, DMSO, DMF
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
TN VED Code:	3204190000

Spectral properties

Excitation 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