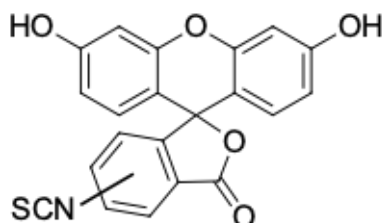


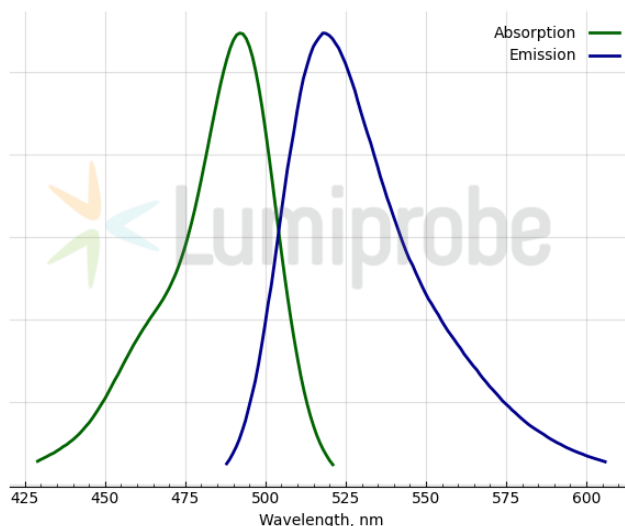
## FAM isothiocyanate (FITC), 5- and 6-isomers

<http://www.lumiprobe.com/p/fitc-5-6>

FAM (5,6)-isothiocyanate or (5,6)-FITC is an isothiocyanate derivative of fluorescein that reacts with nucleophilic substituents (e.g. amino, hydroxyl, thiol) of biomolecules. It is often used to label antibodies and other probes for use in various fluorescence-based techniques such as microscopy, flow cytometry, and immunofluorescence assays like immunochemistry, Western blotting, and ELISA.



**Structure of 5(6)-FITC**



**FAM absorbance and emission spectra**

### General properties

Appearance:	orange powder
Molecular weight:	389.38
CAS number:	27072-45-3
Molecular formula:	$C_{21}H_{11}NO_5S$
Solubility:	good in DMSO
Quality control:	NMR $^1H$ and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. 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:	492
Emission maximum, nm:	517