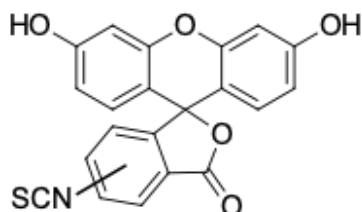


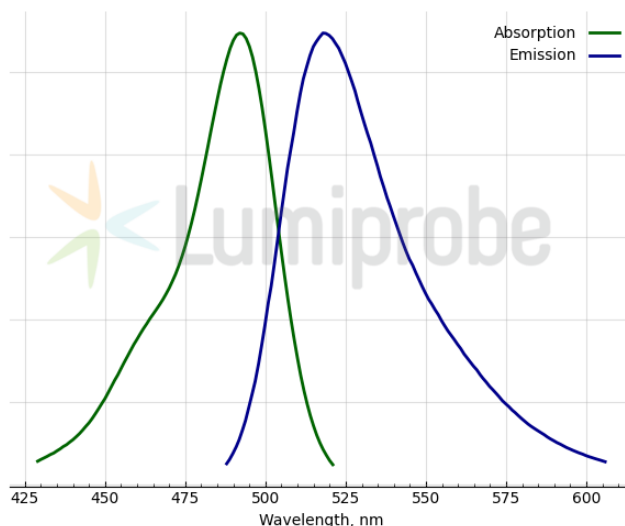
FAM isothiocyanate (FITC), 5- and 6-isomers

<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 ₅ S
Solubility:	good in DMSO
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	492
Emission maximum, nm:	517