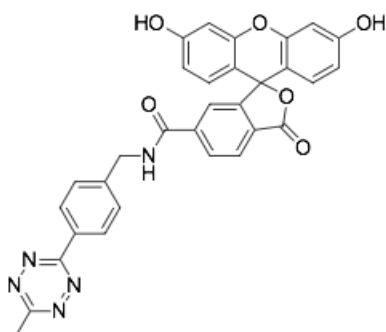


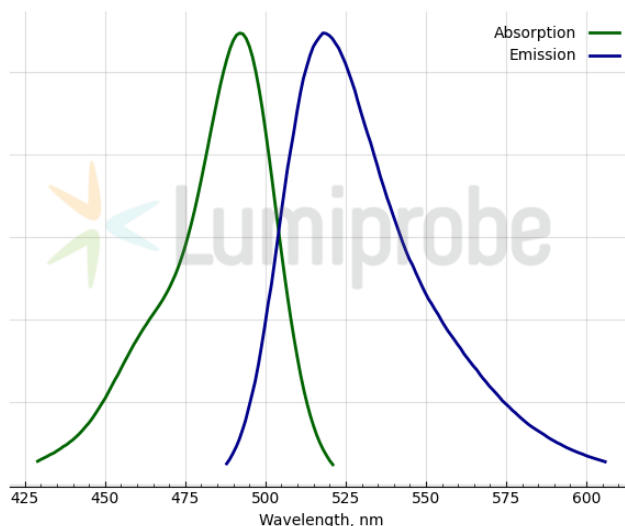
FAM tetrazine, 6-isomer

<http://www.lumiprobe.com/p/fam-tetrazine-6>

Fluorescein (FAM) is a popular fluorophore that has bright emission in the green area of the visible spectrum. This fluorescein derivative contains tetrazine moiety that reacts with trans-cycloalkenes and other strained olefins in inverse electron demand Diels-Alder reaction (IEDDA). The reaction is very quick and specific. This reagent is a pure 6-isomer of FAM.



Structure of 6-FAM tetrazine



Absorption and emission spectra of FAM

General properties

Appearance:	orange solid
Mass spec M+ increment:	531.1
Molecular weight:	559.53
Molecular formula:	C ₃₁ H ₂₁ N ₅ O ₆
Solubility:	good in DMF, DMSO, poor in water
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt 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:	492
ε, L·mol ⁻¹ ·cm ⁻¹ :	74000
Emission maximum, nm:	517
Fluorescence quantum yield:	0.93
CF ₂₆₀ :	0.22
CF ₂₈₀ :	0.17