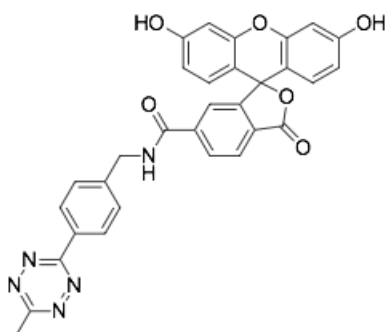


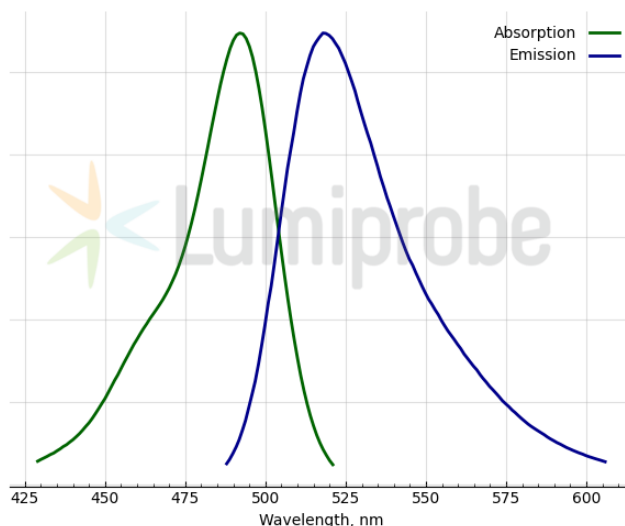
FAM tetrazine, 6-isomer

<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.

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