

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

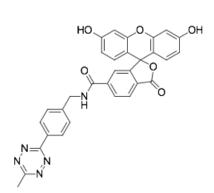
USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

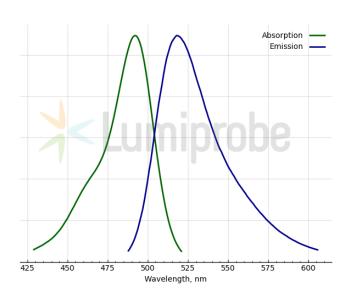
## FAM tetrazine, 6-isomer

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:  $C_{31}H_{21}N_5O_6$ 

Solubility: good in DMF, DMSO, poor in water

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 74000 Emission maximum, nm: 517 Fluorescence quantum yield: 0.93  $CF_{260}$ : 0.22  $CF_{280}$ : 0.17