

## **Lumiprobe Corporation**

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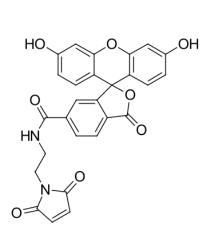
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## FAM maleimide, 6-isomer

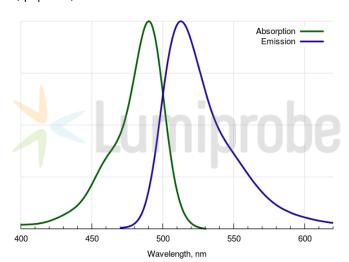
http://www.lumiprobe.com/p/fam-maleimide-6

FAM (fluorescein) is a bright fluorophore which is compatible with various fluorescence detection instruments. FAM is a universal dye that is useful for microscopy, qPCR and many other methods as well as for FRET-based and fluorescence polarization based binding assays.

FAM maleimide is a thiol reactive dye for the labeling of proteins, peptides, and other thiolated molecules.



FAM maleimide, 6-isomer structure



FAM absorbance and emission spectra

## **General properties**

Appearance: yellow solid

Mass spec M+ increment: 498.4 Molecular weight: 498.44 Molecular formula:  $C_{27}H_{18}N_2O_8$ 

Solubility: good in DMSO, DMF

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.

## **Spectral properties**

Excitation/absorption maximum, nm: 492  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 74000 Emission maximum, nm: 517 Fluorescence quantum yield: 0.93  $CF_{260}$ : 0.22  $CF_{280}$ : 0.17