

Lumiprobe Corporation

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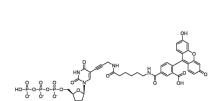
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FAM-11-UTP, 6-isomer

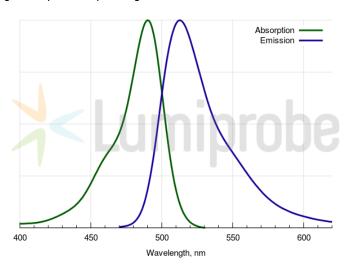
http://www.lumiprobe.com/p/fam-11-utp-6-isomer

6-fluorescein (FAM) derivative of uridine triphosphate (UTP). FAM is a fluorophore with a high quantum yield. The maximum emission of the fluorescence is at a wavelength of 513 nm in the green spectrum range.

6-FAM-11-UTP can be used as a substrate for RNA-polymerases T7, T3 and SP6 during *in vitro* transcription. RNA-probes produced with this method can be used for fluorescence hybridization *in situ*, including multiplex, and for Northern blot. Fluorescently-labeled cRNA can be used for microarray-based gene expression profiling.



Structure of FAM-11-UTP, 6-isomer



Absorption and emission spectra of FAM

General properties

Appearance: yellow/orange solid
Molecular weight: 1026.54
Molecular formula: C₃₉H₃₆Li₃N₄O₂₂P₃

IUPAC name: ((2R,3S,4R,5R)-5-(5-(3-(6-(3-carboxy-4-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzamido)hexanamido)prop-1-yn-1-yl)-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-3,4-dihydroxytetrahydrofuran-2-yl)methyl

hydrogen triphosphate

Solubility: soluble in water

Quality control: HPLC-MS (95%), testing in enzymatic reaction

Storage conditions: Storage: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light and excessive freeze-thaw cycles.

Spectral properties