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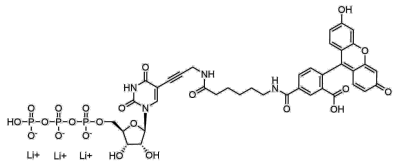
FAM-11-UTP, 6-isomer

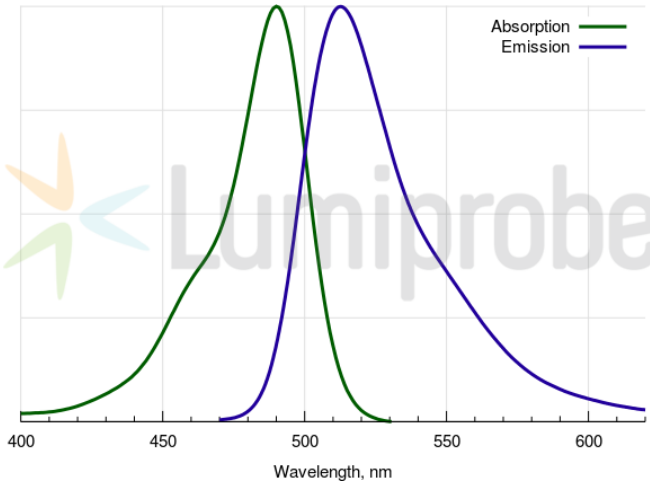
http://www.lumiprobe.com/p/fam-11-utp-6-isomer

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:	$C_{39}H_{36}Li_3N_4O_{22}P_3$
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.
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, $L \cdot mol^{-1} \cdot cm^{-1}$:	74000
Emission maximum, nm:	517
Fluorescence quantum yield:	0.93
CF_{260}:	0.22
CF_{280}:	0.17