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FAM-11-dUTP, 6-isomer

http://hk.lumiprobe.com/p/fam-11-dutp-6

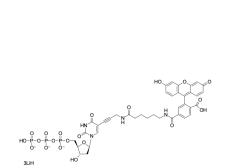
6-FAM-11-2'-deoxyuridine-5'-triphosphate, trilithium salt, is a common agent for non-radioactive DNA labeling.

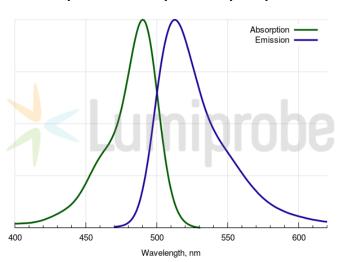
FAM (fluorescein) is a popular green-fluorescent dye with an emission maximum at 513 nm. This derivative is a pure FAM 6isomer.

6-FAM-11-dUTP is a modified triphosphate that can be incorporated into DNA instead of dTTP by various enzymes, including Klenow fragment, Taq-Polymerase, DNA-Polymerase I, Phi 29 Polymerase, reverse transcriptase or terminal transferase.

In contrast to triphosphates with a dye directly linked to aminoallyl-dUTP, this triphosphate contains a linker of 11 atoms between the fluorophore and the nitrogenous base. This linker length prevents FAM-label from potential static quenching and increases the efficiency of nucleotide incorporation during DNA synthesis.

6-FAM-11-dUTP can be used to produce a labeled product during PCR and cDNA synthesis and for labeled DNA-probes synthesis by random primed labeling and Nick-translation. Synthesized fluorescence-labeled DNA probes can be used to detect specific sequences by Southern blot, Northern blot, in situ hybridization, or by microarray analysis.





外观:

分子 1013.49

 $C_{39}H_{39}N_4Li_3O_{21}P_3$ 分子

 $IUPAC\ ((2R,3S,5R)-5-(5-(3-(6-(3-carboxy-4-(6-hydroxy-3-oxo-3H-xanthen-9-y))benzamido)prop-1-yn-1-yl)-2, 4-dioxo-3, 4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl ((2R,3S,5R)-5-(5-(3-(6-(3-carboxy-4-(6-hydroxy-3-oxo-3H-xanthen-9-y))benzamido)prop-1-yn-1-yl)-2, 4-dioxo-3, 4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl ((2R,3S,5R)-5-(5-(3-(6-(3-carboxy-4-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzamido)prop-1-yn-1-yl)-2, 4-dioxo-3, 4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl ((3R,3S,5R)-5-(5-(3-(6-(3-carboxy-4-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzamido)prop-1-yn-1-yl)-2, 4-dioxo-3, 4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl ((3R,3S,5R)-5-(5-(3-(6-(3-carboxy-3-oxo-3H-xanthen-9-yl)benzamido)prop-1-yn-1-yl)-2, 4-dioxo-3, 4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl ((3R,3S,5R)-5-(5-(3-(6-(3-carboxy-3-carbox)-3-(3-carbox)-$

溶解

质量

控制:

储存

激发/ 492

吸收 极大

74000

ε, 摩 尔吸 光系

数 cm:

发射 517 极大

值,

纳米: 荧光 0.93

产率:

CF₂₆₀: 0.22

CF₂₈₀: 0.17