

## FAM-11-dUTP, 6-isomer

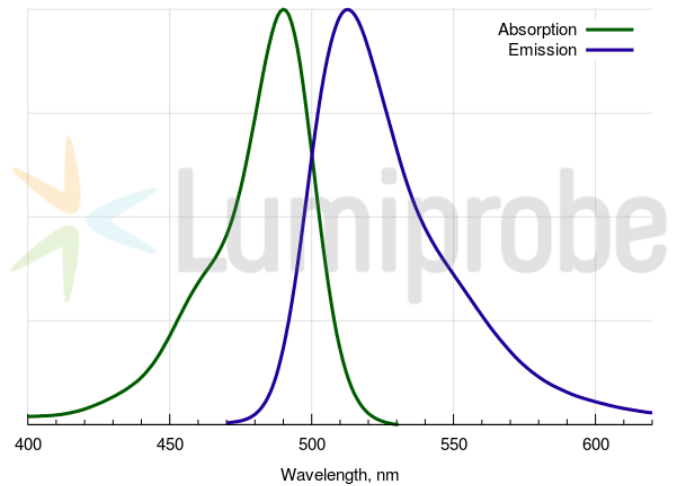
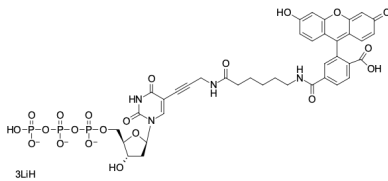
<http://cn.lumiprobe.com/p/fam-11-dutp-6>

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 6-isomer.

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 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: 黄色至橙色固体

分子量: 1013.49

分子式:

$C_{28}H_{39}N_4Li_3O_{21}P_3$

IUPAC

((2R,3S,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-hydroxytetrahydrofuran-2-yl)methyl hydrogen triphosphate

溶解度: 溶于水

质量

控制: HPLC-MS (95%), 酶促反应检测

储存

条件: 收到后在  $-20^{\circ}\text{C}$  黑暗条件下可保存 12 个月。运输: 室温下最多可保存 3 周。避免长时间暴露在光线下和过度的冻融循环。

法律

声明: 本产品仅供研究目的提供和销售。本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/ 492

吸收

极大

值,

纳米:

$\epsilon$ , 摩

尔吸

光系

数  $\text{cm}^2$

发射

极大

值,

纳米:

荧光

量子

产率:

$CF_{280}$ : 0.22

$CF_{280}$ : 0.17