Tetramethyl-Rhodamine-5-dUTP

CATALOG NUMBER: RU-013-0135, 50 nmol (1 mM x 50 µl)

Application

In situ Hybridization for fluorescence detection.

Tetramethyl rhodamine labeled probes show red fluorescence. It is frequently used with fluorescein-12-dUTP (yellow fluorescence) in multiple fluorescence labeling.

Description

Tetramethyl-rhodamine-5(6)-[5-(3-carboxiaminoallyl)-2'-deoxyuridine-5'-triphosphate], Li-salt.

Rho-5-dUTP is used for the fluorescent labelling of DNA by DNA polymerase (holoenzyme and Klenow fragment), Taq DNA polymerases, terminal deoxynucleosidtransferase, and reverse-transcriptase.

Storage

Store at -20 ^{o}C, protect from light.

Concentration

50 nmol (50 µl of 1 mM solution, pH7.5).

Purity

96-99% (HPLC), PCR grade. No presence of RNA/DNA, DNase or RNase activities detected. Free of phosphatase and pyrophosphates.

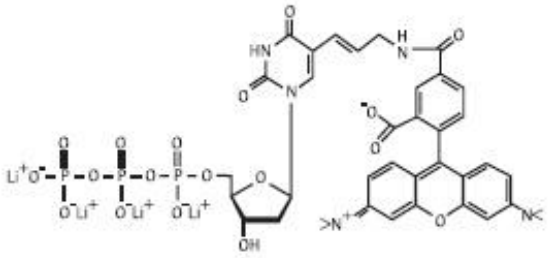
Spectral Data

Maximum excitation: 551 nm

Maximum emission: 575 nm

Formula

$C_{37}H_{36}N_5O_{18}P_3Li_4$, Molecular Weight (959.4).



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