

Product Information

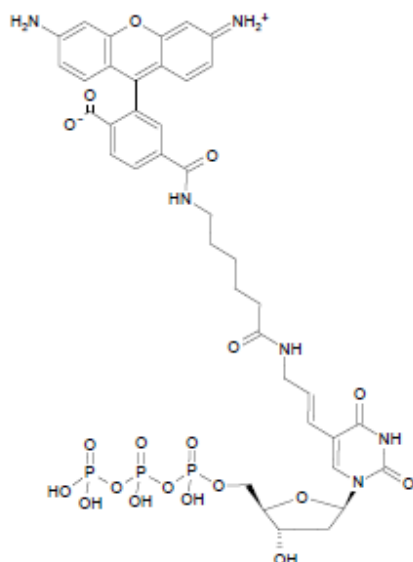
19685 Rhodamine-12-dUTP triethylammonium salt solution

Description:

Rhodamine-12-dUTP is recommended for direct enzymatic labeling of DNA/cDNA by Nick Translation. It is incorporated as substitute for its natural counterpart dTTP. The resulting Dye-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based gene expression profiling. Optimal substrate properties and thus labeling efficiency is ensured by an optimized linker attached to the C5 position of uridine.

Recommended Rhodamine-12-dUTP/dTTP ratio for Nick Translation:
50% Rhodamine-12-dUTP/ 50% dTTP

Molecular Formula:	C ₃₉ H ₄₅ N ₆ O ₁₉ P ₃ (free acid)
Molecular Weight:	993.72 g/mol (free acid)
Form:	clear aqueous solution
Concentration:	1 mM
pH:	7.5 +/-0.5
Spectroscopic Properties:	λ_{exc} 505 nm; λ_{em} 530 nm; ϵ 85.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5) CF _{280nm} 0.27; CF _{260nm} 0.39
Package quantity:	10 μ L



Structural formula of Rhodamine-12-dUTP

Applications:

Incorporation into DNA/cDNA by

- Nick Translation with DNase I/ DNA Polymerase I unpublished results

Please note

Protect the Dye-labeled dUTP from exposure to light and carry out experimental procedures in low light conditions.

The optimal final concentration of the Dye-labeled dUTP may vary depending on the application and assay conditions.

For optimal product yields and high incorporation rates an individual optimization of the Dye-labeled-dUTP/dTTP ratio is recommended.

Storage Conditions: store at -20 °C, protect from light

Precautions and Disclaimer:

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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