

Product Information

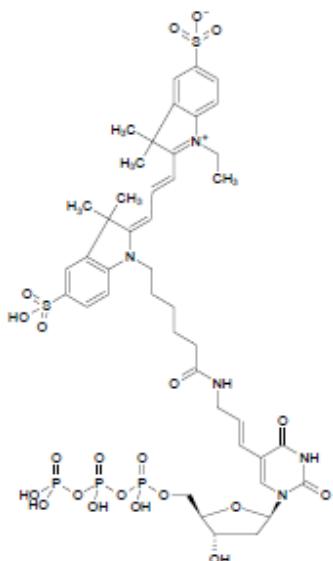
19518 Aminoallyl-dUTP-Cy3 triethylammonium salt solution

Description:

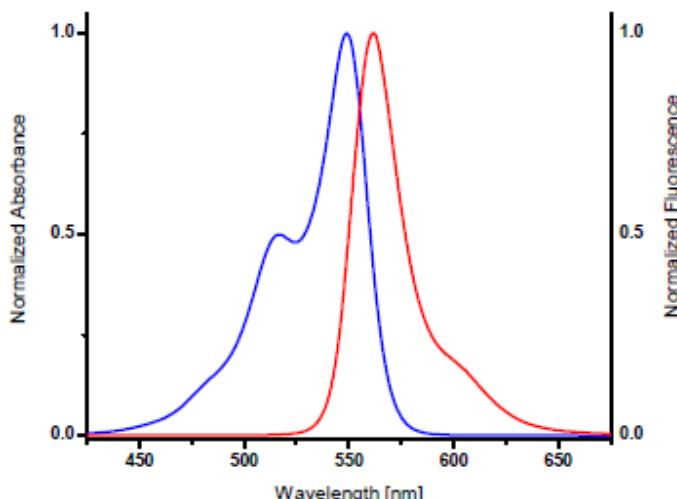
Aminoallyl-dUTP-Cy3 is recommended for direct enzymatic labeling of DNA/cDNA e.g. by PCR and Nick Translation. It is incorporated as substitute for its natural counterpart dTTP. The resulting Dye-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based gene expression profiling. Optimal substrate properties and thus labeling efficiency is ensured by an optimized linker attached to the C5 position of uridine.

Recommended Aminoallyl-dUTP-Cy3/dTTP ratio for PCR and Nick Translation:
50% Aminoallyl-dUTP-Cy3/ 50% dTTP

Molecular Formula: C₄₃H₅₆N₅O₂₁P₃S₂ (free acid)
Molecular Weight: 1135.97 g/mol (free acid)
Form: sterile clear aqueous solution
In 10 mM Tris-HCl 7.5 +/- 0.5
Concentration: 1 mM
pH: 7.5 +/- 0.5
Spectroscopic Properties: $\lambda_{\text{exc}} 550 \text{ nm}$; $\lambda_{\text{em}} 570 \text{ nm}$;
 $\epsilon 150.0 \text{ L mmol}^{-1} \text{ cm}^{-1}$ (Tris-HCl pH 7.5)
Package quantity: 10 μL



Structural formula of Aminoallyl-dUTP – Cy3



Excitation and Emission spectrum of Cy3

Applications:

Incorporation into DNA/cDNA by

- PCR with Taq polymerase ^{unpublished results}

- Nick Translation with DNase I/ DNA Polymerase I ^{unpublished results}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

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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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