

## Product Information

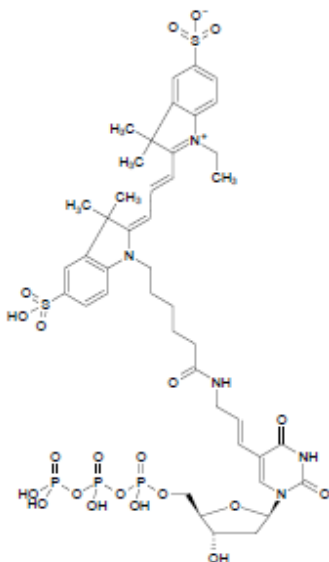
### 19518 Aminoallyl-dUTP-Cy<sup>®</sup>3 triethylammonium salt solution

#### Description:

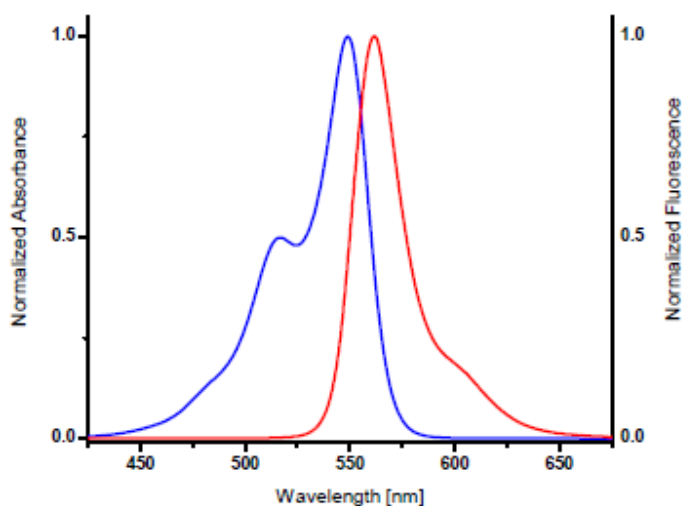
Aminoallyl-dUTP-Cy3 is recommended for direct enzymatic labeling of DNA/cDNA e.g. by PCR and Nick Translation. It is incorporated as substitute for its natural counterpart dTTP. The resulting Dye-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based 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:	C <sub>43</sub> H <sub>56</sub> N <sub>5</sub> O <sub>21</sub> P <sub>3</sub> S <sub>2</sub> (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:	$\lambda_{exc}$ 550 nm; $\lambda_{em}$ 570 nm; $\epsilon$ 150.0 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl pH 7.5)
Package quantity:	10 $\mu$ L



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- PCR with Taq polymerase unpublished results
- Nick Translation with DNase I/ DNA Polymerase I unpublished results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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