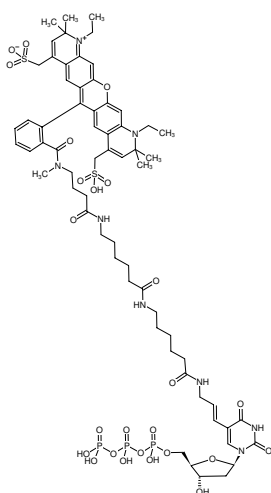




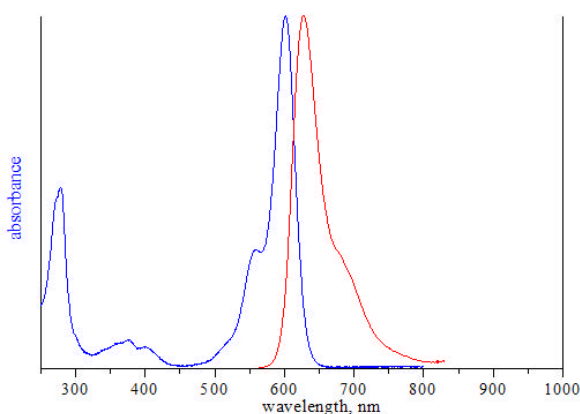
## Aminoallyl-dUTP-XX-ATTO-594

5-(3-Aminoallyl)-2'-deoxyuridine-5'-triphosphate, labeled with ATTO 594, Triethylammonium salt

Cat. No.	Amount
NU-803-XX-594-S	10 $\mu$ l (1 mM)
NU-803-XX-594-L	5 x 10 $\mu$ l (1 mM)



Structural formula of Aminoallyl-dUTP-XX-ATTO-594



excitation and emission spectrum of ATTO 594

### For general laboratory use.

**Shipping:** shipped on gel packs

**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** C<sub>65</sub>H<sub>87</sub>N<sub>8</sub>O<sub>25</sub>P<sub>3</sub>S<sub>2</sub> (free acid)

**Molecular Weight:** 1537.48 g/mol (free acid)

**Exact Mass:** 1536.44 g/mol (free acid)

**Purity:**  $\geq$  95 % (HPLC)

**Form:** filtered solution (30 kDa) in 10 mM Tris-HCl

**Color:** red-violet

**Concentration:** 1.0 mM - 1.1 mM

**pH:** 7.5  $\pm$  0.5

**Spectroscopic Properties:**  $\lambda_{exc}$  602 nm,  $\lambda_{em}$  626 nm,  $\epsilon$  120.0 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5)

### Applications:

- Incorporation into DNA/cDNA by
  - PCR with *Taq* polymerase in-house data
  - Nick Translation with DNase I/ DNA Polymerase I in-house data

### Description:

Aminoallyl-dUTP-XX-ATTO594 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-XX-ATTO594/dTTP ratio for PCR and Nick Translation: 30-50% Aminoallyl-dUTP-XX-ATTO594/ 70-50% dTTP

*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.*

### Related Products:



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HighFidelity ORANGE PCR Labeling Testkit, #APP-101-ORANGE