

## Product Datasheet

### Aminoallyl-dUTP - Solution (orb1733874)

<b>Catalog Number</b>	orb1733874
<b>Category</b>	Small Molecules
<b>Description</b>	Aminoallyl-dUTP is recommended for two-step labeling of DNA/cDNA e.g. by PCR, Nick Translation, Primer Extension, 3'-End Labeling and Reverse Transcription. It is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart dTTP. The result-ing Amine-functionalized DNA/cDNA can subsequently be labeled via the classic Amine/NHS Ester reaction that offers the choice: to introduce a Biotin group (via NHS Ester of Biotin) for subse-quent purification tasks; to introduce fluorescent group (via NHS Ester of fluorescent dyes) for subsequent microscopic imaging.
<b>Form/Appearance</b>	solution in water; Color: colorless to slightly yellow; pH: 7.5 ± 0.5
<b>Concentration</b>	100 mM-110 mM
<b>Purity</b>	≥ 95% (HPLC)
<b>MW</b>	Theoretical MW: 523.22 g/mol (free acid); Detected MW: 523.02 g/mol (free acid)
<b>Application notes</b>	Incorporation into DNA/cDNA by PCR with Taqpolymerase, in-house data; Nick Translation with DNase I/DNA Polymerase I; Primer Extension with Klenow exo-; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT); Reverse Transcription with MMLV Reverse Transcriptase. Spectroscopic Propertie: λ <sub>max</sub> 289 nm, ε 7.1 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl, pH 7.5).
<b>CAS Number</b>	116840-18-7
<b>Formula</b>	C <sub>12</sub> H <sub>20</sub> N <sub>3</sub> O <sub>14</sub> P <sub>3</sub>
<b>SMILES</b>	NC/C=C/c1cn(c(=O)[nH]c1=O)[C@H]1C[C@@H]([C@H](O1)COP(=O)(O)OP(=O)(O)OP(=O)(O)O)O

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<b>Storage</b>	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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