

Product Datasheet

Azide-PEG4-aminoallyl-dUTP (orb1734019)

Catalog Number	orb1734019
Category	Small Molecules
Description	Azide-PEG 4-aminoallyl-dUTP is recommended for two-step labeling of DNA/cDNA e.g. by PCR. It is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart dTTP. The result-ing Azide-functionalized DNA/cDNA can subsequently be labeled via Cu(I)-catalyzed or Cu(I)-free click chemistry that offers the choice: to introduce a Biotin group (via Alkynes of Biotin or DBCO-functionalized Biotin, respectively) for subsequent purification tasks; to introduce fluorescent group (via Alkynes of fluorescent dyes or DBCO-functionalized fluorescent dyes, respectively) for sub-sequent microscopic imaging; to crosslink the DNA to Azide-or DBCO-functionalized biomolecules e.g.proteins.
Form/Appearance	solution in water; Color: colorless to slightly yellow; pH: 7.5 ± 0.5
Concentration	10 mM-11 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 796.51 g/mol (free acid); Detected MW: 796.15 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by PCR with Taqpolymerasein-house data; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT). Spectroscopic Propertie: λmax 289 nm, ε 7.1 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₂₃ H ₃₉ N ₆ O ₁₉ P ₃
SMILES	[C@@H]1(C[C@@H](O[C@@H]1COP(=O)(OP(=O)(OP(=O)(O)O)O)O)n1c(=O)[nH]c(=O)c(c1)/C=C/CNC(=O)CCOCCOCCOCCOCCN=[N+]=[N-])O
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only

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Expiration Date 12 months from date of receipt.

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