

Product Datasheet

Aminoallyl-dUTP-XX-ATTO-425 (orb533131)

Catalog Number	orb533131
Category	Small Molecules
Description	Aminoallyl-dUTP-XX-ATTO425 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-ATTO425/dTTP ratio for PCR and Nick Translation: 20-30% Aminoallyl-dUTP-XX-ATTO425/80-70% dTTP (PCR), 30-50% Aminoallyl-dUTP-XX-ATTO425/70-50% dTTP (Nick Translation).
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: green-yellow; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1132.97 g/mol (free acid); Detected MW: 1132.36 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by: PCR with Taq polymerase in-house data; Nick Translation with DNase I/DNA Polymerase I in-house data. Spectroscopic Properties: λ _{exc} 439 nm, λ _{em} 485 nm, ε 45.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₄₆ H ₆₇ N ₆ O ₂₁ P ₃
SMILES	<chem>C(/C=C/c1cn(c(=O)[nH]c1=O)[C@H]1C[C@@H]([C@H](O1)COP(=O)(OP(=O)(OP(=O)(O)O)O)O)NC(=O)CCCCNC(=O)CCCCNC(=O)CCCN1c2cc3oc(=O)c(C(=O)OCC)cc3cc2C(C)CC1(C)C</chem>
Storage	store at -20 °C

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Note

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Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)