

Product Datasheet

5-Propargylamino-dCTP-ATTO-550 (orb533138)

Catalog Number	orb533138
Category	Small Molecules
Description	5-Propargylamino-dCTP-ATTO-550 is recommended for direct enzymatic labeling of DNA/cDNA by Nick Translation. It is incorporated as substitute for its natural counterpart dCTP. 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 cytidine. Recommended Propargylamino-dCTP-ATTO-550/dCTP ratio for Nick Translation: 30-50% Propargylamino-dCTP-ATTO-550/70-50% dCTP.
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: red-violet; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1095.97 g/mol (free acid); Detected MW: 1095.33 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by-Nick Translation with DNase I/DNA Polymerase in-house data. Spectroscopic Properties: λ _{exc} 554 nm, λ _{em} 576 nm, ε 120.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₄₉ H ₆₀ N ₇ O ₁₆ P ₃
SMILES	[C@@H]1(C[C@@H](O[C@@H]1COP(=O)(OP(=O)(OP(=O)([O-])O)O)n1c(=O)nc(c(c1)C#CCNC(=O)CCCN(C(=O)c1c(C2=c3cc4C(CC([NH+]=c4cc3O)c3cc4NC(CC(c4cc23)C)(C)C)(C)C)cccc1)C)N)O
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 27713-2847
United States

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

Note	For research use only
Expiration Date	12 months from date of receipt.

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 27713-2847
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)