

Product Datasheet

5-DBCO-PEG4-dUTP (orb532299)

Catalog Number	orb532299
Category	Small Molecules
Description	5-DBCO-PEG 4-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 DBCO-functionalized DNA/cDNA can subsequently be labeled via Cu(I)-free click chemistry that offers the choice: to introduce a Biotin group (via Azides of Biotin) for subsequent purification tasks; to introduce fluorescent group (via Azides of fluorescent dyes) for subsequent microscopic imaging; to crosslink the DNA to Azide-functionalized biomolecules e.g.proteins.
Form/Appearance	solution in 100 mM Tris-HCl; Color: colorless to slightly yellow; pH: 7.5 0.5
Concentration	10 mM-11 mM
Purity	95% (HPLC)
MW	Theoretical MW: 1057.83 g/mol (free acid); Detected MW: 1057.25 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by PCR with Taqpolymerasein-house data. Spectroscopic Propertie: max 289 nm, 12.5 L mmol-1 cm-1 (Tris-HCl, pH 7.5).
Formula	C ₄₂ H ₅₄ N ₅ O ₂₁ P ₃
SMILES	<chem>c1(=O)[nH]c(=O)n(cc1/C=C/CNC(=O)CCOCCOCCOCCOCCNC(=O)CCC(=O)N1Cc2c(C#Cc3c1cccc3)cccc2)[C@H]1C[C@H](O)[C@H](O1)COP(=O)(O)OP(=O)(O)OP(=O)(O)O</chem>
Storage	store at -20 C
Note	For research use only

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