

Product Datasheet

Fluorescein-12-dCTP (orb1733848)

Description	Fluorescein-12-dCTP is recommended for direct enzymatic labeling of DNA/cDNA e.g. by PCR and Nick Tr...
Form/Appearance	solution in 10 mM Tris-HCl; Color: yellow-orange; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only
Application notes	Incorporation into DNA/cDNA by: PCR with Taqpolymerasein-house data; Nick Translation with DNase I/DNA Polymerase lin-house data. Spectroscopic Propertie: λ _{exc} 492 nm, λ _{em} 517 nm, ε 83.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₃₉ H ₄₀ N ₅ O ₂₀ P ₃
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 991.68 g/mol; Detected MW: 991.15 g/mol
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)CCCCNC(=O)c1ccc(c(c1)c1c2c(oc3c1ccc(=O)c3)cc(cc2)O)C(=O)O)N)O.[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)CCCCNC(=O)c1ccc(c(c1)C(=O)O)c1c2c(oc3c1ccc(=O)c3)cc(cc2)O)N)O
Expiration Date	12 months from date of receipt.