

Product Datasheet

dNTP Mix - 10 mM Solution (orb533048)

Description	dNTP Mix is an equimolar mixture of ultrapure dATP, dCTP, dGTP, and dTTP supplied as clear aqueous s...
Form/Appearance	clear aqueous solution; pH: 8.5 ± 0.2 (22 °C)
Storage	store at -20 °C
Note	For research use only
Application notes	For standard PCR applications a final concentration of 200 µM each dNTP is recommended.
Formula	dATP: C ₁₀ H ₁₆ N ₅ O ₁₂ P ₃ ; dCTP: C ₉ H ₁₆ N ₃ O ₁₃ P ₃ ; dGTP: C ₁₀ H ₁₆ N ₅ O ₁₃ P ₃ ; dTTP: C ₁₀ H ₁₇ N ₂ O ₁₄ P ₃
Purity	≥ 99% (HPLC)
MW	Theoretical MW: dATP: 491.18 g/mol (free acid), dCTP: 467.15 g/mol (free acid), dGTP: 507.18 g/mol (free acid), dTTP: 482.17 g/mol (free acid)
SMILES	<chem>O[C@@H]1[C@@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](n2cnc3c(N)ncnc23)C1.Nc1ccn(c(=O)n1)[C@@H]1O[C@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1.Nc1[nH]c(=O)c2ncn(c2n1)[C@@H]1O[C@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1.Cc1cn(c(=O)[nH]c1=O)[C@@H]1O[C@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1</chem>
Expiration Date	12 months from date of receipt.