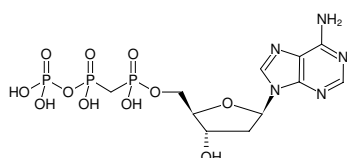


**dApCpp**

(dAMPCPP)

2'-Deoxyadenosine-5'-[(α,β)-methylene]triphosphate, Sodium salt

Cat. No.	Amount
NU-432S	50 μ l (10 mM)
NU-432L	5 x 50 μ l (10 mM)



Structural formula of dApCpp

For general laboratory use.**Shipping:** shipped on gel packs**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 12 months after date of delivery**Molecular Formula:** C₁₁H₁₈N₅O₁₁P₃ (free acid)**Molecular Weight:** 489.21 g/mol (free acid)**Exact Mass:** 489.02 g/mol (free acid)**CAS#:** 138998-91-1**Purity:** \geq 95 % (HPLC)**Form:** solution in water**Color:** colorless to slightly yellow**Concentration:** 10 mM - 11 mM**pH:** 7.5 \pm 0.5**Spectroscopic Properties:** λ_{\max} 259 nm, ϵ 15.4 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)**Applications:**X-ray analysis^[1, 2]**Specific Ligands:**DNA-polymerase β ^[2]**Selected References:**

[1] Batra *et al.* (2008) Structure of DNA polymerase β with active-site mismatches suggest a transient abasic site intermediate during misincorporation. *Molecular Cell* **30**:315.

[2] Bakhtina *et al.* (2009) Contribution of the Reverse Rate of the Conformational Step to Polymerase β Fidelity. *Biochemistry* **48** (14):3197.

Kirby *et al.* (2012) Metal-Induced DNA Translocation Leads to DNA Polymerase Conformational Activation. *Nucleic Acids Res.* **40** (7):2974.

Jiang *et al.* (2011) Use of Chromophoric Ligands to Visually UNIT 7:15 Screen Co-Crystals of Putative Protein-Nucleic Acid Complexes. *Curr. Protoc. Nucleic Acid Chem.* **7** (7):15.1

Balbo *et al.* (2011) Kinetic mechanism of active site assembly and chemical catalysis of DNA polymerase β . *Biochemistry* **50** (45):9865.