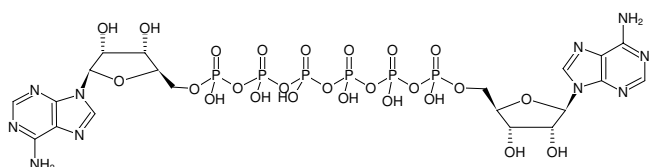


**AP₆A**P¹-(5'-Adenosyl) P⁶-(5'-adenosyl) hexaphosphate, Sodium salt

| Cat. No. | Amount |
|----------|-------------------|
| NU-509S | 20 µl (10 mM) |
| NU-509L | 5 x 20 µl (10 mM) |

Structural formula of AP₆A**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:** C₂₀H₃₀N₁₀O₂₅P₆ (free acid)**Molecular Weight:** 996.35 g/mol (free acid)**Exact Mass:** 995.98 g/mol (free acid)**CAS#:** 56983-23-4**Purity:** ≥ 95 % (HPLC)**Form:** solution in water**Color:** colorless to slightly yellow**Concentration:** 10 mM - 11 mM**pH:** 7.5 ±0.5**Spectroscopic Properties:** λ_{max} 259 nm, ε 27.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)**Applications:**Kinetic parameters with arabisopsis thaliana Nudix hydrolase^[1]Action as neurotransmitter^[2]Modeling of binding to Nudix hydrolase Ndx1^[3]Mediated release of atrial atriopeptin (ANP)^[4]**Specific Ligands:**Binding properties to Nudix hydrolase^[5]**Selected References:**

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- [2] Delicado *et al.* (2006) Dinucleoside polyphosphates and their interaction with other nucleotide signaling pathways. *Pflugers Arch.* **452** (5):563.
- [3] Zheng *et al.* (2005) Homology modeling and substrate binding study of Nudix hydrolase Ndx1 from *Thermos thermophilus* HB8. *Biochem. Biophys. Res. Commun.* **333** (3):881.
- [4] Yuan *et al.* (2007) Diadenosine tetraphosphate stimulates atrial ANP release via A (1) receptor: involvement of K (ATP) channel and PKC. *Peptides* **28** (7):1397.
- [5] Garza *et al.* (2009) Kinetic, dynamic, ligand binding properties, and structural models of a dual-substrate specific nudix hydrolase from *Schizosaccharomyces pombe*. *Biochemistry* **48** (26):6224.
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