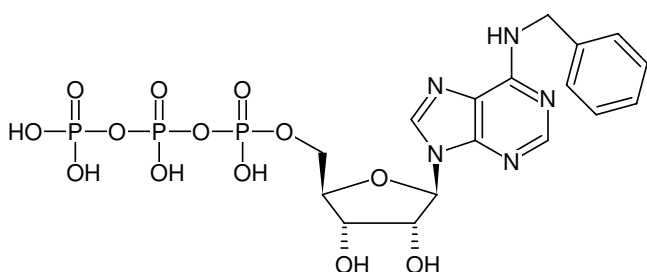




N⁶-Benzyl-ATP

N⁶-Benzyl-adenosine-5'-triphosphate, Sodium salt

Cat. No.	Amount
NU-1196S	300 µl (10 mM)
NU-1196L	5 x 300 µl (10 mM)



Structural formula of N⁶-Benzyl-ATP

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: C₁₇H₂₂N₅O₁₃P₃ (free acid)

Molecular Weight: 597.30 g/mol (free acid)

Exact Mass: 597.04 g/mol (free acid)

CAS#: 40922-97-2

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} 269 nm, ε 20.5 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)

Applications:

Agonistic ligand, mainly for nucleoside receptor A₁, with less affinity to A_{2A} and A₃

Nucleoside-triphosphates can be converted by different membrane-bound phosphatases into nucleosides acting as nucleoside receptor ligands. In some cases nucleoside phosphates act also directly on nucleoside receptors.

Selected References:

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Van Galen *et al.* (1994) A binding site model and structure-activity relationships for rat A₃ adenosine receptor. *Molecular Pharmacology* **45**:1101.