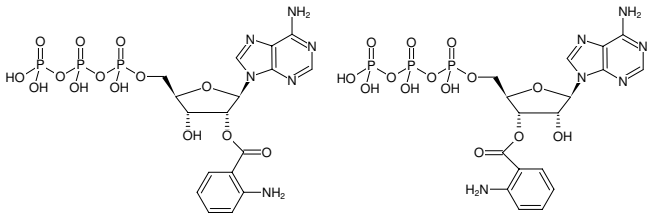
DATA SHEET

Jena Bioscience

Ant-ATP

2'/3'-O-Anthraniloyl-adenosine-5'-triphosphate, Triethylammonium salt

Cat. No.	Amount
NU-891S	150 µl (10 mM)
NU-891L	5 x 150 µl (10 mM)



Structural formula of Ant-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: $C_{17}H_{21}N_6O_{14}P_3$ (free acid)

Molecular Weight: 626.30 g/mol (free acid)

Exact Mass: 626.03 g/mol (free acid)

CAS#: 289633-56-3

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} 255 nm, ε 20.2 L mmol^{-1} cm^{-1} (Tris-HCl pH 7.5), λ_{exc} 330 nm, λ_{em} 428 nm

Selected References:

Yan *et al.* (2011) Role of protein conformational dynamics in the catalysis by 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase. *Protein Pept. Lett.* **18 (4)**:328.

Li *et al.* (2005) Is the critical role of loop 3 of Escherichia coli 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase in catalysis due to loop-3 residues arginine-84 and tryptophan-89? Site-directed mutagenesis, biochemical, and crystallographic studies. *Biochemistry* **44 (24)**:8590.

Shi *et al.* (2000) Dissecting the nucleotide binding properties of Escherichia coli 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase with fluorescent 3'(2)'-o-anthraniloyladenosine 5'-triphosphate. *Biochim. Biophys. Acta* **1478 (2)**:289.

Karasaki *et al.* (1987) Inhibition of single and double-stranded DNA-dependent ATPase of RecA protein by ATP ribose-modified analogs. *Journal of UOEH* **9 (2)**:141.