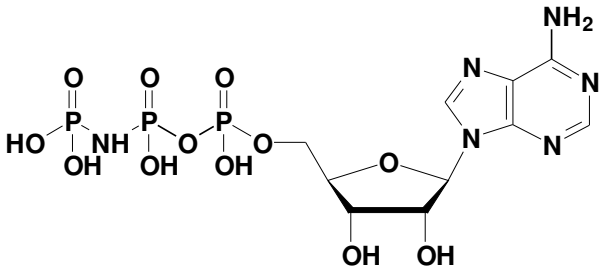
Data sheet

IFTA AG
Certified QMS according to
DIN EN ISO 9001
Reg. No. IC 03214 034

AppNHp (AMPPNP)

Adenosine-5′-[(β,γ)-imido]triphosphate, Sodium salt

Cat. No.	Amount
NU-407-10	10 mg
NU-407-50	50 mg



Molecular Formula:
$C_{10}H_{17}N_6O_{12}P_3$ (free acid)

Molecular Weight:
506.19 g/mol (free acid)

Purity:
> 95 % (HPLC)

Spectroscopic Properties:
λ_{max} 259nm; ϵ 15.4 x $10^3 cm^{-1}$ M^{-1} (TrisxHCl pH 7.5)

Storage conditions:
Short term exposure (up to 1 week cumulative) to ambient temperature possible. Long term storage at < -20°C. If stored as recommended, Jena Bioscience guarantees optimal performance of this product for 6 months after date of delivery.

For research use only!

Please note:

For reasons of stability, please make sure that the pH value of a solution of this product never drops below 7.0. This can be achieved by dissolving the nucleotide in a buffer of your choice (50 - 100 mM, pH 7 - 10). Dissolve and adjust concentration photometrically.

Applications:

X-ray analysis[1, 2]

Hydrolyse studies[3, 4]

Specific Ligands:

Thymidylate kinase[1, 2]

Selected References:

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[3] Shimizu *et al.* (1997) Hydrolysis of AMPPNP by the motor domain of NCD, a kinesin-related protein. *Mol. Biol. Cell* **8**:1497.

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Shi *et al.* (1999) EDC cross-linking of actin and myosin S1. II. AMPPNP induces an allosteric transition from pre-hydrolysis state to posthydrolysis state. *Biophys. J.* **76 (1)**:A163.

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