DATA SHEET

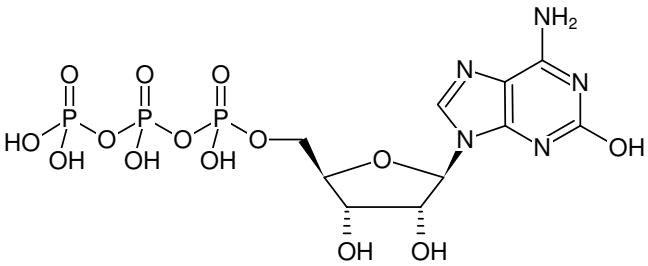
Jena Bioscience

2-Hydroxy-ATP

(*iso*-GTP)

2-Hydroxy-adenosine-5'-triphosphate, Sodium salt

Cat. No.	Amount
NU-1173S	50 µl (10 mM)
NU-1173L	5 x 50 µl (10 mM)



Structural formula of 2-Hydroxy-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: $C_{10}H_{16}N_5O_{14}P_3$ (free acid)

Molecular Weight: 523.18 g/mol (free acid)

Exact Mass: 522.99 g/mol (free acid)

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} 292 nm, ε 11.1 L mmol^{-1} cm^{-1} (Tris-HCl pH 7.5)

Applications:
Inducing C-T mutations during transcription[1]

Hydrolysis byMTH1-protein[2]

Specific Ligands:

Binding to MTH1-protein[2]

Selected References:
[1] Kamiya *et al.* (2007) Effects of 8-hydroxy-GTP and 2-hydroxy-ATP on in vitro transcription. *Free Radical Biology and Medicine* **43 (5)**:837.

[2] Fujikawa *et al.* (2001) Human MTH1 protein hydrolyzes the oxidized ribonucleotide, 2-hydroxy-ATP. *Nucleic Acids Res.* **29 (2)**:449.