**TNP-ATP**

2',3'-O-Trinitrophenyl-adenosine-5'-triphosphate, Triethylammonium salt

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
<th>Unit Definition: 1 unit = 1 µl of a 10 mM solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>NU-221S</td>
<td>200 Units</td>
<td></td>
</tr>
<tr>
<td>NU-221L</td>
<td>5 x 200 Units</td>
<td></td>
</tr>
</tbody>
</table>

Structural formula of TNP-ATP

**Unit Definition:** 1 unit = 1 µl of a 10 mM solution

**For research use only!**

**Shipping:** shipped on blue ice

**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible. If stored as recommended, Jena Bioscience guarantees optimal performance of this product for 12 months after date of delivery.

**Shelf Life:** 12 months

**Molecular Formula:** C_{16}H_{16}N_{8}O_{19}P_{3} (free acid)

**Molecular Weight:** 717.26 g/mol (free acid)

**CAS#:** 120360-48-7

**Purity:** ≥ 95 % (HPLC)

**Form:** orange solution in water, pH 7.5 ± 0.5

**Concentration:** 10 mM

**pH:** 7.5 ± 0.5

**Spectroscopic Properties:** λ_{max} 259/408/470 nm;
TNP-ATP
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Specific Ligands:
Ligand for purinergic receptors:
P2X₁, P2X₂

Antagonist for purinergic receptors:
P2X₂, P2X₃, P2X₄, P2X₅

Selected References:


Adina-Zada et al. (2011) Probing the allosteric activation of pyruvate carboxylase using 2',3'-O-(2,4,6-trinitrophenyl) adenosine 5'-triphosphate as a fluorescent mimic of the allosteric activator acetyl CoA. Arch. Biochem. Biophys. 509 (2):117.


Faller et al. (1990) Binding of the fluorescent substrate analogue 2',3'-O-(2,4,6-trinitrophenyl)cyclohexadienylidene)-adenosine 5'-triphosphate to the gastric H+,K(+)-ATPase: evidence for cofactor-induced conformational changes in the enzyme. Biochemistry 29:3179.