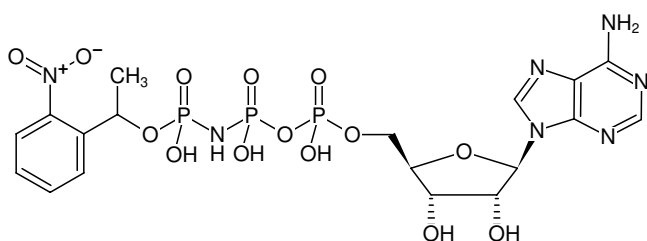


**NPE-caged-AppNHp**

(NPE-caged-AMPPNP)

Adenosine-5'-[(β,γ)-imido]triphosphate, P³-(1-(2-nitrophenyl)-ethyl)-ester, Triethylammonium salt

| Cat. No. | Amount |
|----------|------------------------|
| NU-305S | 20 μ l (10 mM) |
| NU-305L | 5 x 20 μ l (10 mM) |



Structural formula of NPE-caged-AppNHp

For general laboratory use.**Shipping:** shipped on gel packs**Storage Conditions:** store at -20 °C**Additional Storage Conditions:** store dark

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 6 months after date of delivery**Molecular Formula:** C₁₈H₂₄N₇O₁₄P₃ (free acid)**Molecular Weight:** 655.35 g/mol (free acid)**Exact Mass:** 655.06 g/mol (free acid)**CAS#:** 116271-21-7**Purity:** \geq 95 % (HPLC)**Form:** solution in water**Color:** colorless to slightly yellow**Concentration:** 10 mM - 11 mM**pH:** 7.5 \pm 0.5**Spectroscopic Properties:** λ_{\max} 260 nm, ϵ 18.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)**Applications:**

Agonistic ligand, mainly for nucleoside receptor A₁. Nucleosidephosphates stabilized against hydrolytic degradation can directly bind to nucleoside receptors. The caged form is protected during uptake and transport in animal experiments and can be well-directed released through activation at the target tissue.

Selected References:

Volonte *et al.* (2009) Membrane components and purinergic signalling: the purinome, a complex interplay among ligands, degrading enzymes, receptors and transporters. *FEBS J.* **276**:318.

Yegutkin (2008) Nucleotide and nucleoside converting enzymes: Important modulators of purinergic signalling cascade. *Biochim. Biophys. Acta* **1783**:673.

Williams *et al.* (1986) Effects of purine nucleotides on the binding of [³H]cyclopentyladenosine to adenosine A₁-receptors in rat brain membranes. *J. Neurochem.* **47** (1):88.