DATA SHEET

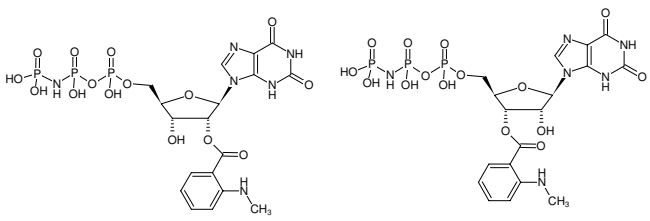
Jena Bioscience

Mant-XppNHp

(Mant-XMPPNP)

2'/3'-O-(N-Methyl-anthraniloyl)-xanthosine-5'-[(β,γ)-imido]triphosphate, Triethylammonium salt

Cat. No.	Amount
NU-211S	5 µl (10 mM)
NU-211L	5 x 5 µl (10 mM)



Structural formula of Mant-XppNHp

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: 6 months after date of delivery

Molecular Formula: $C_{18}H_{23}N_6O_{15}P_3$ (free acid)

Molecular Weight: 656.33 g/mol (free acid)

Exact Mass: 656.04 g/mol (free acid)

Purity: ≥ 90 % (HPLC)

Form: solution in water

Color: colorless to slightly yellow

Concentration: 10 mM - 11 mM

pH: 7.5 ±0.5

Spectroscopic Properties: λ_{max} 254/355 nm, ε 19.0/5.8 L mmol^{-1} cm^{-1} (Tris-HCl pH 7.5), λ_{exc} 355 nm, λ_{em} 448 nm

Selected References:

Gille *et al.* (2004) Differential Inhibition of Adenylyl Cyclase Isoforms and Soluble Guanylyl Cyclase by Purine and Pyrimidine Nucleotides. *J. Biol. Chem.* **279**:19955.

Gille *et al.* (2004) Xanthine nucleotide-specific G-protein α-subunits: a novel approach for the analysis of G-protein-mediated signal transduction. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **369**:141.

Marlovits (2002) The membrane protein FeoB contains an intramolecular G protein essential for
Fe (II) uptake in bacteria. *PNAS* **99**:16243.