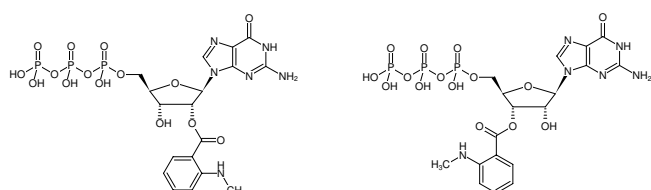




Mant-GTP

2'/3'-O-(N-Methyl-anthraniloyl)-guanosine-5'-triphosphate, Triethylammonium salt

Cat. No.	Amount
NU-206S	150 µl (10 mM)
NU-206L	5 x 150 µl (10 mM)



Structural formula of Mant-GTP

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: C₁₈H₂₃N₆O₁₅P₃ (free acid)

Molecular Weight: 656.33 g/mol (free acid)

Exact Mass: 656.04 g/mol (free acid)

CAS#: 148821-03-8

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} 252/355 nm, ε 22.6/5.7 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5), λ_{exc} 355 nm, λ_{em} 448 nm

Applications:

Inhibition of AC-isoform^[1] and GTPs^[2]

Activity measurement: GC^[3]

Specificity measurements with isoforms of ACs^[4]

FRET: AC^[5], edema factor^[6]

Inhibition of edema factor (anthrax)^[6]

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[3] Newton *et al.* (2010) A real-time fluorescent assay of the purified nitric oxide receptor, guanylyl cyclase. *Analytical Biochem.* **402**:129.

[4] Mou *et al.* (2006) Broad specificity of mammalian adenylyl cyclase for interaction with 2,3-substituted purine- and pyrimidine-nucleotide inhibitors. *Molecular Pharmacology* **70**:878.

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