### Mant-GDP

**2’/3’-O-(N-Methyl-anthraniloyl)-guanosine-5’-diphosphate, Triethylammonium salt**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>NU-204S</td>
<td>150 Units</td>
</tr>
<tr>
<td>NU-204L</td>
<td>5x 150 Units</td>
</tr>
</tbody>
</table>

**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

**Shelf Life:** 12 months

**Molecular Formula:** C₁₈H₂₂N₆O₁₂P₂ (free acid)

**Molecular Weight:** 576.35 g/mol (free acid)

**CAS#:** 148821-02-7

**Purity:** ≥ 95 % (HPLC)

**Form:** clear aqueous solution, pH 7.5

**Concentration:** 10 mM

**pH:** 7.5

**Spectroscopic Properties:**

- \( \lambda_{\text{max}} \): 252/355 nm; \( \epsilon \): 22.6/5.7 l mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)\n- \( \lambda_{\text{exc}} \): 355 nm; \( \lambda_{\text{em}} \): 448 nm

**Applications:**

- Conformational dynamic: DnaB/C-proteins\(^[1]\), Csk\(^[2]\)
- Fluorescence stop-flow kinetics: release factor\(^[3]\), elfSB\(^[4]\), EF-1B\(^[5]\), EF-Tu\(^[6]\)
- FRET: AC\(^[7]\)

**Specific Ligands:**

- Translation factor: elfSB\(^[4]\), EF1B2\(^[5]\), EF-Tu\(^[6]\)
- Release factor\(^[3]\)

**Selected References:**


Koshiba et al. (2011) Structure-function analysis of the yeast mitochondrial Rho GTPase, Gem1p: implications for mitochondrial
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Wintermeyer et al. (2006) Role and timing of GTP binding and hydrolysis during EF-G-dependent RNA translocation on the ribosome. PNAS 103 (37):13670.


Neal et al. (1990) Hydrolysis of GTP by p21NRAS, the NRAS protooncogene product, is accompanied by a conformational change in the wild-type protein: use of a single fluorescent probe at the catalytic site. Proc. Natl. Acad. Sci. USA 87:3562.

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