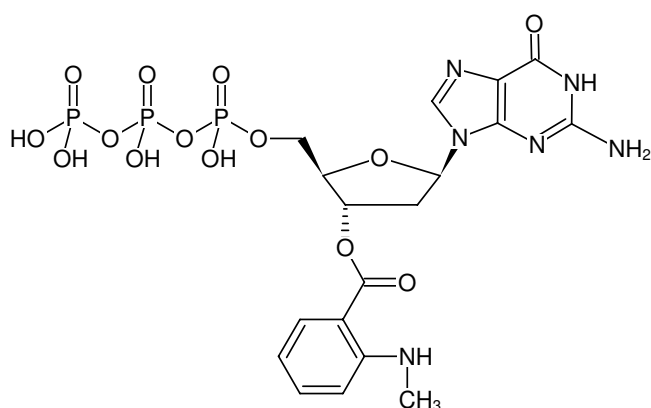


**Mant-dGTP**

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

Cat. No.	Amount
NU-212S	50 µl (10 mM)
NU-212L	5 x 50 µl (10 mM)



Structural formula of Mant-dGTP

**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:** C<sub>18</sub>H<sub>23</sub>N<sub>6</sub>O<sub>14</sub>P<sub>3</sub> (free acid)**Molecular Weight:** 640.33 g/mol (free acid)**Exact Mass:** 640.05 g/mol (free acid)**CAS#:** 124615-99-2**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<sub>max</sub> 252/355 nm, ε 22.6/5.7 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5), λ<sub>exc</sub> 355 nm, λ<sub>em</sub> 448 nm**Applications:**Resonance energy transfer studies (FRET)<sup>[1]</sup>Enzyme kinetic studies<sup>[2]</sup>**Specific Ligands:**Bacillus anthracis toxin edema factor<sup>[1]</sup>EF-Tu<sup>[3]</sup>**Selected References:**

[1] Suryanarayana *et al.* (2009) Distinct interactions of 2'- and 3'-O-(N-methyl)anthraniloyl-isomers of ATP and GTP with the adenylyl cyclase toxin of *Bacillus anthracis*, edema factor. *Biochemical Pharmacology* **78 (3)**:224.

[2] Kettlun *et al.* (2005) Potato tuber isoapyrases: Substrate specificity, affinity labelling, and proteolytic susceptibility. *Phytochemistry* **66**:975.

[3] Rodnina *et al.* (1995) Codon-dependent conformational change of elongation-factor tu preceding GTP hydrolysis on the ribosome. *EMBO J.* **14 (11)**:2613.

Hazlett *et al.* (1993) Solution dynamics of p21 (Ras) proteins bound with fluorescent nucleotides - a time-resolved fluorescence study. *Biochemistry-US* **32 (49)**:13575.