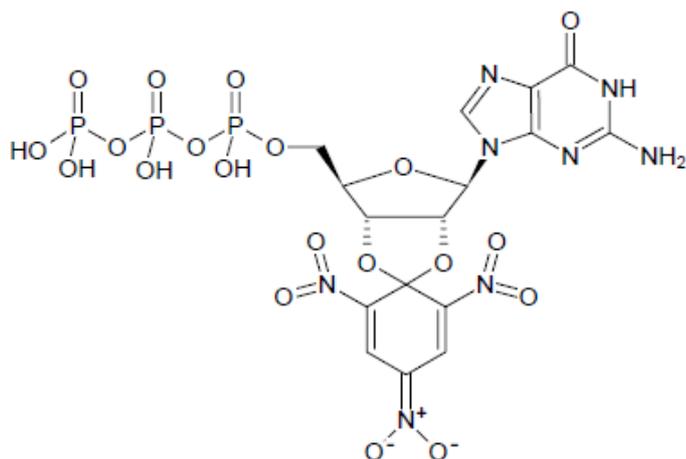


Product Information

69299 TNP-GTP triethylammonium salt

Description:

Molecular Formula:	C ₁₆ H ₁₆ N ₈ O ₂₀ P ₃
Molecular Weight:	733.26 g/mol (free acid)
Form:	lyophilized
Spectroscopic Properties:	λ _{exc} 408/470 nm; λ _{em} 252/408/470 nm; ε 24.1/26.5/18.3 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5)
Package quantity:	1 μmol



Structural formula of TNP-GTP

Storage Conditions: store at -20 °C, protect from light

Selected References:

Spangler *et al.* (2011) Interaction of the diguanylate cyclase YdeH of *Escherichia coli* with 2',(3')-substituted purine and pyrimidine nucleotides. *J. Pharmacol. Exp. Ther.* **336(1)**:234.

Suryanarayana *et al.* (2009) Differential Inhibition of Various Adenylyl Cyclase Isoforms and Soluble Guanylyl Cyclase by 2',3'-O-(2,4,6-Trinitrophenyl)- Substituted Nucleoside 5'-Triphosphates. *J. Pharmacol. Exp. Ther.* **330(3)**:687.

Goettle *et al.* (2007) Molecular analysis of the interaction of Bordetella pertussis adenylyl cyclase with fluorescent nucleotides. *Molecular Pharmacology* **72**(3):526.

Sprang *et al.* (2006) Broad Specificity of Mammalian Adenylyl Cyclase for Interaction with 2',3'-Substituted Purine- and Pyrimidine Nucleotide Inhibitors. *Mol. Pharmacol.* **70**:878.

Golczak *et al.* (2002) GTP-induced membrane binding and ion channel activity of annexin VI: is annexin VI a GTP biosensor? *Biophys. J.* **82**:2737.

Chordia *et al.* (1998) Distances between the paclitaxel, colchicine, and exchangeable GTP binding sites on tubulin. *Biochemistry* **37**:6636.

Randak *et al.* (1996) A recombinant polypeptide model of the second predicted nucleotide binding fold of the cystic fibrosis transmembrane conductance regulator is a GTP-binding protein. *FEBS Lett.* **398**:97.

Baubichon-Cortay *et al.* (1994) Overexpression and purification of the carboxyl-terminal nucleotide-binding domain from mouse P-glycoprotein. Strategic location of a tryptophan residue. *J. Biol. Chem.* **269**:22983.

Hoyer *et al.* (1986) Synthesis of 2',3'-O-(2,4,6-trinitrocyclohexadienylidene)guanosine 5'-triphosphate and a study of its inhibitory properties with adenylyl cyclase. *Arch. Biochem. Biophys.* **245**:369.

Hiratsuka (1985) A chromophoric and fluorescent analog of GTP, 2',3'-O-(2,4,6-trinitrocyclohexadienylidene)-GTP, as a spectroscopic probe for the GTP inhibitory site of liver glutamate dehydrogenase. *J. Biol. Chem.* **260**:4784.

Precautions and Disclaimer:

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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