DATA SHEET

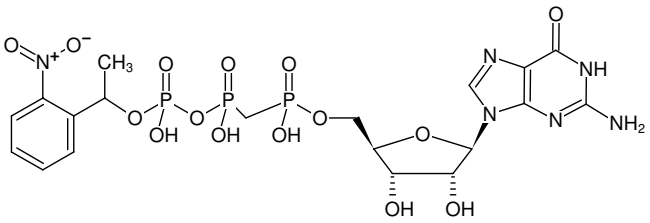
Jena Bioscience

NPE-caged-GpCpp

(NPE-caged-GMPCPP)

Guanosine-5'-[(α,β)-methyleno]triphosphate, P^3-(1-(2-nitrophenyl)-ethyl)-ester, Triethylammonium salt

Cat. No.	Amount
NU-306S	10 µl (10 mM)
NU-306L	5 x 10 µl (10 mM)



Structural formula of NPE-caged-GpCpp

For research use only!

Shipping: shipped on blue ice

Storage Conditions: store at -20 °C

Additional Storage Conditions: store dark

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 12 months after date of delivery

Molecular Formula: $C_{19}H_{25}N_6O_{15}P_3$ (free acid)

Molecular Weight: 670.35 g/mol (free acid)

Exact Mass: 670.06 g/mol (free acid)

Purity: ≥ 95 % (HPLC)

Form: clear aqueous solution

Concentration: 10 mM - 11 mM

pH: 7.5 ±0.5

Spectroscopic Properties: λ_{max} 254 nm, ε 16.4 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.5)

Selected References:

Derrick *et al.* (2012) The Nucleotide-Binding State of Microtubules Modulates Kinesin Processivity and Tau's Ability to Inhibit Kinesin Mediated Transport. *J. Biol. Chem.* **286 (50)** : 42873.

Katsuki *et al.* (2011) Preparation of Dual-Color Polarity-Marked Fluorescent Microtubule Seeds *Methods. Mol. Biol.* **777**:117.

Telley *et al.* (2011) Reconstitution and Quantification of Dynamic Microtubule End Tracking In Vitro Using TIRF Microscopy *Methods. Mol. Biol.* **777**:127.

Kalisch *et al.* (2011) Force Generation by Dynamic Microtubules In Vitro *Methods. Mol. Biol.* **777**:147.

Salvarelli *et al.* (2011) Independence between GTPase active sites in the Escherichia coli cell division protein FtsZ. *FEBS Lett.* **585 (24)**:3880.

Khrapunovich-Baine *et al.* (2011) Hallmarks of molecular action of microtubule stabilizing agents: effects of epothilone B, ixabepilone, peloruside A, and laulimalide on microtubule conformation. *J. Biol. Chem.* **286 (13)**:11765.

Antonio *et al.* (2011) Bacterial Tubulin Distinct Loop Sequences and Primitive Assembly Properties Support Its Origin from a Eukaryotic Tubulin Ancestor*J. Biol. Chem.* **286 (22)**:19789.

Yusuke Oguchi *et al.* (2011) The bidirectional depolymerizer MCAK generates force by disassembling both microtubule ends *NATURE CELL BIOLOGY.* **13 (7)**:846.

Maurer SP *et al.* (2011) GTPγS microtubules mimic the growing microtubule

end structure recognized by end-binding proteins (EBs) *Proc. Natl. Acad. Sci. U. S. A.* **108 (10)**:3988.

Ryuzo Kawamura *et al.* (2011 Formation of motile assembly of

microtubules driven by kinesins *Smart Mater. Struct.* **20 (2011)**: 124007.