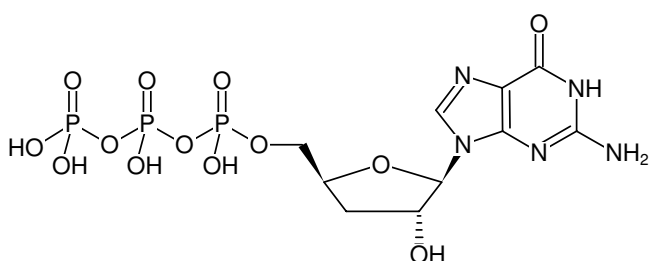


**3'-dGTP**

3'-Deoxyguanosine-5'-triphosphate, Sodium salt

Cat. No.	Amount
NU-1145S	50 µl (10 mM)
NU-1145L	5 x 50 µl (10 mM)



Structural formula of 3'-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:** C₁₀H₁₆N₅O₁₃P₃ (free acid)**Molecular Weight:** 507.18 g/mol (free acid)**Exact Mass:** 507.00 g/mol (free acid)**CAS#:** 55968-37-1**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 nm, ε 13.7 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)**Applications:**Microtubule assembly^[1]Hydrolysis by tubulin and proteins^[1]**Specific Ligands:**Affinity to RNA polymerase I and II^[2]Affinity to DNA primase^[2]**Selected References:**

[1] Hamel *et al.* (1984) Deoxyguanosine nucleotide analogues: potent stimulators of microtubule nucleation with reduced affinity for the exchangeable nucleotide site of tubulin. *Biochemistry* **23** (22):5314.

[2] Shunji Izuta *et al.* (1996) 3'-Deoxyribonucleotides inhibit Eukaryotic DNA Primase1. *J. Biochem.* **119** (6):1038.

Rasmussen *et al.* (1993) In vivo transcriptional pausing and cap formation on three *Drosophila* heat shock genes. *Proc. Natl. Acad. Sci. USA* **90**:7923.

Hamel *et al.* (1976) Interactions of Guanosine Triphosphate Analogues with Elongation Factor G of *Escherichia coli*. *J. Biochem.* **63**:13894.