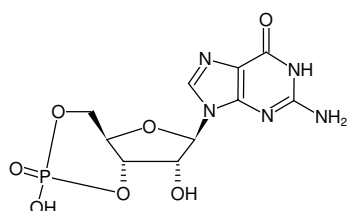


**cGMP**

Guanosine-3',5'-cyclic monophosphate, Sodium salt

Cat. No.	Amount
NU-1501-50	50 mg
NU-1501-250	250 mg
NU-1501-500	500 mg
NU-1501-1G	1 g



Structural formula of cGMP

**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>10</sub>H<sub>12</sub>N<sub>5</sub>O<sub>7</sub>P (free acid)**Molecular Weight:** 345.21 g/mol (free acid)**Exact Mass:** 345.05 g/mol (free acid)**CAS#:** 40732-48-7**EC number:** 255-056-0**Purity:** ≥ 95 % (HPLC)**Form:** solid**Color:** white to off-white**Spectroscopic Properties:** λ<sub>max</sub> 252 nm, ε 13.7 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5)**Selected References:**

Nisoli *et al.* (2003) Mitochondrial biogenesis in mammals: the role of endogenous nitric oxide. *Science* **299** (5608):896.

Ahumada *et al.* (2003) Signaling of rat Frizzled-2 through phosphodiesterase and cyclic GMP. *Science* **298** (5600):2006.

Rybalkin *et al.* (2003) PDE5 is converted to an activated state upon cGMP binding to the GAF A domain. *EMBO J.* **22** (3):469.

Butt *et al.* (2003) Actin binding of human LIM and SH3 protein (LASP) is regulated by cGMP- and cAMP-dependent protein kinase phosphorylation on Ser-146. *J. Biol. Chem.* **2003 Feb 5** [epub ahead of print].

Leckie *et al.* (2003) The NO pathway acts late during the fertilization response in sea urchin eggs. *J. Biol. Chem.* **2003 Jan 22** [epub ahead of print]

Ludidi *et al.* (2003) Identification of a Novel Protein with Guanylyl Cyclase Activity in *Arabidopsis thaliana*. *J. Biol. Chem.* **278** (8):6490.

Coates *et al.* (2002) Antagonistic pathways in neurons exposed to body fluid regulate social feeding in *Caenorhabditis elegans*. *Nature* **419** (6910):925.

Bosgraaf *et al.* (2002) A novel cGMP signalling pathway mediating myosin phosphorylation and chemotaxis in *Dictyostelium*. *EMBO J.* **21** (17):4560.

Higgins *et al.* (2002) Molecular architecture of a retinal cGMP-gated channel: the arrangement of the cytoplasmic domains. *EMBO J.* **21** (9):2087.

Castellani *et al.* (2002) Cis and trans interactions of L1 with neuropilin-1 control axonal responses to semaphorin 3A. *EMBO J.* **21** (23):6348.

Park *et al.* (2002) Nitric Oxide-Cyclic GMP Signaling Pathway in the Regulation of Rabbit Clitoral Cavernosum Tone. *Exp. Biol. Med. (Maywood)* **227** (11):1022.