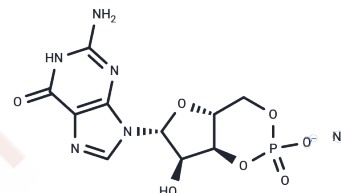


GUANOSINE 3':5'-CYCLIC MONOPHOSPHATE SOD

Chemical Properties

CAS No. :	40732-48-7
Formula:	C ₁₀ H ₁₁ N ₅ NaO ₇ P
Molecular Weight:	367.19
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	GUANOSINE 3':5'-CYCLIC MONOPHOSPHATE SOD (cGMP sodium salt) , also known as cGMP, is a cellular regulatory agent and has been described as a second messenger. Its levels increase in response to a variety of hormones, including acetylcholine, insulin, and oxytocin. GUANOSINE 3':5'-CYCLIC MONOPHOSPHATE SOD activates protein kinase G (PKG) and modulates ion channel conductance, with signaling affecting diverse processes including smooth muscle relaxation and proliferation, phototransduction, and energy homeostasis.
Targets(IC50)	Endogenous Metabolite,PKA,STING

Solubility Information

Solubility	DMSO: 12 mg/mL (32.68 mM),Sonication is recommended. H ₂ O: 50 mg/mL (136.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7234 mL	13.6169 mL	27.2339 mL
5 mM	0.5447 mL	2.7234 mL	5.4468 mL
10 mM	0.2723 mL	1.3617 mL	2.7234 mL
50 mM	0.0545 mL	0.2723 mL	0.5447 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hamad AM, et al. Guanylyl cyclases, nitric oxide, natriuretic peptides, and airway smooth muscle function. *Am J Physiol Lung Cell Mol Physiol*. 2003 Nov;285(5):L973-83.

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Rehim WM, et al. Antioxidant capacity in Fasciola hepatica patients before and after treatment with triclabendazole alone or in combination with ascorbic acid (vitamin C) and tocofersolan (vitamin E).

Arzneimittelforschung. 2003;53(3):214-20.

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