

Product Data Sheet

Product Name: 5'-Guanylic acid disodium salt

Cat. No.: GC39330

Chemical Properties

Cas. No. 5550-12-9

SMILES O=P([O-])(OC[C@H]1[C@H]([C@H]([C@H](N2C=NC3=C2N=C(N)NC3=O)O1)O)O)[O-].[Na+].[Na+]

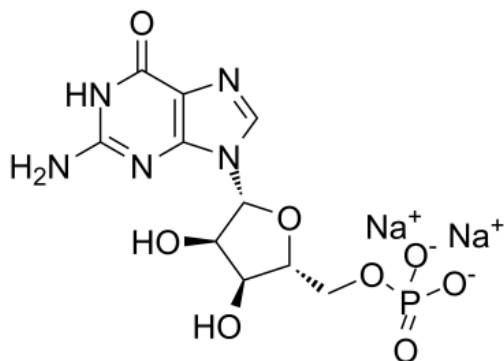
Formula $C_{10}H_{12}N_5Na_2O_8P$ M.Wt 407.18

Solubility Water: 100 mg/mL (245.59 mM); Storage Store at -20°C
DMSO: < 1 mg/mL (insoluble or slightly soluble)

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

5'-Guanylic acid disodium salt (5'-GMP disodium salt) is composed of guanine, ribose, and phosphate moieties and it is a nucleotide monomer in messenger RNA. Guanosine derivatives are involved in intracellular signal transduction and have been identified in repetitive genomic sequences in telomeres, in ribosomal DNA, immunoglobulin heavy-chain switch regions, and in the control

Caution: Product has not been fully validated for medical applications. For research use only.

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regions of proto-oncogenes[1].

[1]. Lan T, et al. Type II cGMP-dependent protein kinase phosphorylates EGFR at threonine 669 and thereby inhibits its activation. Biochem Biophys Res Commun. 2019 Aug 6.

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