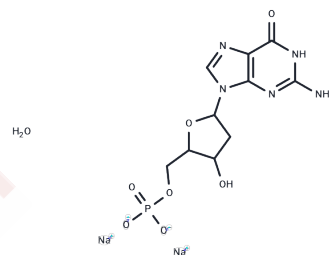


2'-Deoxyguanosine 5'-monophosphate (sodium salt hydrate)

Chemical Properties

CAS No. :	146877-98-7
Formula:	C ₁₀ H ₁₄ N ₅ Na ₂ O ₈ P
Molecular Weight:	409.202
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	2'-Deoxyguanosine 5'-monophosphate (dGMP) is used as a substrate of guanylate kinases to generate dGDP, which in turn is phosphorylated to dGTP, a nucleotide precursor used in DNA synthesis. In addition, dGMP can be efficiently phosphorylated by the type I thymidylate kinase of the malarial agent <i>P. falciparum</i> . In humans, deficiency of mitochondrial deoxyguanosine kinase, which synthesizes dGMP from ATP and deoxyguanosine, contributes to mitochondrial DNA depletion syndrome.
Targets(IC50)	Others,DNA/RNA Synthesis

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (24.44 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	2.4438 mL	12.219 mL	24.4379 mL
5 mM	0.4888 mL	2.4438 mL	4.8876 mL
10 mM	0.2444 mL	1.2219 mL	2.4438 mL
50 mM	0.0489 mL	0.2444 mL	0.4888 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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