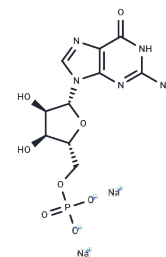


## 5'-Guanylic acid disodium salt (Standard)

### Chemical Properties

CAS No. :	5550-12-9
Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>9</sub> P
Molecular Weight:	425.20
Storage:	Store at -80°C <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	<p>5'-Guanylic acid disodium salt (Standard) is the standard substance of 5'-Guanylic acid disodium salt, and it is applicable for quantitative analysis, quality control, and related research in biochemical experiments. 5'-Guanylic acid disodium salt (GMP-5) belongs to the class of organic compounds known as purine ribonucleoside monophosphates. In particular, L-Glutamic acid and guanosine monophosphate can be biosynthesized from xanthylic acid and L-glutamine; which is catalyzed by the enzyme GMP synthase [glutamine-hydrolyzing]. In addition, Guanosine triphosphate and guanosine monophosphate can be biosynthesized from diguanosine tetraphosphate; which is catalyzed by the enzyme bis(5'-nucleosyl)-tetraphosphatase [asymmetrical]. In humans, guanosine monophosphate is involved in the kanamycin action pathway, the telithromycin action pathway, the tobramycin action pathway, and the erythromycin action pathway. Guanosine monophosphate is also involved in several metabolic disorders, some of which include the AICA-ribosiduria pathway, adenosine deaminase deficiency, adenine phosphoribosyltransferase deficiency (aprt), and the 2-hydroxyglutric aciduria (D and L form) pathway. Outside of the human body, guanosine monophosphate can be found in a number of food items such as onion-family vegetables, millet, chinese water chestnut, and red rice. This makes guanosine monophosphate a potential biomarker for the consumption of these food products.</p>
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3518 mL	11.7592 mL	23.5183 mL
5 mM	0.4704 mL	2.3518 mL	4.7037 mL
10 mM	0.2352 mL	1.1759 mL	2.3518 mL
50 mM	0.047 mL	0.2352 mL	0.4704 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.

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