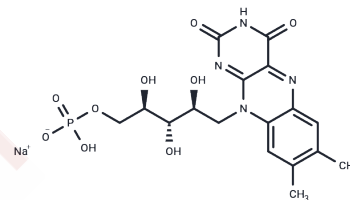


Riboflavin phosphate sodium

Chemical Properties

CAS No. :	130-40-5
Formula:	C ₁₇ H ₂₀ N ₄ NaO ₉ P
Molecular Weight:	478.33
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	Riboflavin phosphate sodium (FMN) is the sodium phosphate form of riboflavin, a water-soluble and essential micronutrient that is the primary growth promoter of the naturally occurring vitamin B complex. Riboflavin phosphate sodium is converted into 2 coenzymes, flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD), which produce energy by aiding in the metabolism of fats, carbohydrates, and proteins, and are required for red blood cell formation and respiration, antibody production, and regulation of growth and reproduction in the body.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 20.8 mg/mL (43.48 mM), Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0906 mL	10.453 mL	20.9061 mL
5 mM	0.4181 mL	2.0906 mL	4.1812 mL
10 mM	0.2091 mL	1.0453 mL	2.0906 mL
50 mM	0.0418 mL	0.2091 mL	0.4181 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

Shen K, Huang XE. Asian Pac J Y Prev. 2015;16(4):1525-7.

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