Data Sheet (Cat.No.T36863)



Geranylgeranyl Pyrophosphate (ammonium salt)

Chemical Properties

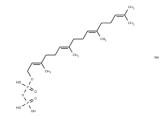
CAS No.: 313263-08-0

Formula: C20H36O7P2·3NH3

Molecular Weight: 501.53

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description Geranylgeranyl pyrophosphate is an intermediate in the HMG-CoA reductase pathway

derived directly from farnesyl pyrophosphate and used in the biosynthesis of terpenes and terpenoids.[1] It is also serves as a substrate in the prenylation of a variety of critical intracellular proteins including small GTPases.[2] This post-translational modification is necessary for correct localization of proteins to intracellular membranes for proper

functionality and has become a focus of anticancer drug discovery.[3][4]

Solubility Information

Solubility Methanol:NH4OH (70:30): 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9939 mL	9.9695 mL	19.939 mL
5 mM	0.3988 mL	1.9939 mL	3.9878 mL
10 mM	0.1994 mL	0.9969 mL	1.9939 mL
50 mM	0.0399 mL	0.1994 mL	0.3988 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.

Reference

Vance, D.E. Cholesterol and related derivatives. Biochemistry 2nd ed., 725-748 (1988).

Soprenylated proteins. Cell Mol.Life Sci. 63(3), 255-267 (2006).

Baron, R.A., and Seabra, M.C. Rab

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Page 1 of 1 www.targetmol.com