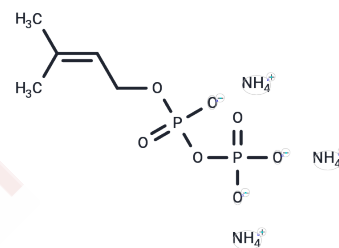


DMAPP triammonium

Chemical Properties

CAS No. :	1186-30-7
Formula:	C ₅ H ₂₁ N ₃ O ₇ P ₂
Molecular Weight:	297.18
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	DMAPP triammonium (Dimethylallyl diphosphate triammonium) is one of the prerequisite substances for an isoprenoid involved in the mevalonate (MVA) pathway, which can be used in the study of metabolism-related diseases.
Targets(IC50)	Others
In vitro	Dimethylallyl Pyrophosphate triammonium salt, an isomer of isopentenyl pyrophosphate (IPP), is a crucial isoprenoid precursor. It serves as a product of both the mevalonate pathway and the MEP pathway in the biosynthesis of isoprenoid precursors. Isopentenyl pyrophosphate isomerase, an enzyme found in virtually all life forms, catalyzes the isomerization between Dimethylallyl Pyrophosphate triammonium salt and IPP[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.365 mL	16.8248 mL	33.6496 mL
5 mM	0.673 mL	3.365 mL	6.7299 mL
10 mM	0.3365 mL	1.6825 mL	3.365 mL
50 mM	0.0673 mL	0.3365 mL	0.673 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

Wang W, et al. Bioorganometallic chemistry with IspG and IspH: structure, function, and inhibition of the [Fe(4)S(4)] proteins involved in isoprenoid biosynthesis. *Angew Chem Int Ed Engl.* 2014;53(17):4294-4310.

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