

## DMAPP

## Chemical Properties

CAS No. :	358-72-5
Formula:	C <sub>5</sub> H <sub>12</sub> O <sub>7</sub> P <sub>2</sub>
Molecular Weight:	246.092
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	DMAPP, also known as Dimethylallyl pyrophosphate, is an isoprenoid precursor found in all life forms. It serves as an isomer of isopentenyl pyrophosphate (IPP).
Targets(IC50)	Others
In vitro	DMAPP (Dimethylallyl pyrophosphate), an isoprenoid precursor, is synthesized via both the mevalonate and MEP pathways of isoprenoid precursor biosynthesis, serving as a key component across nearly all life forms. This compound is an isomer of isopentenyl pyrophosphate (IPP), with the enzymatic conversion between DMAPP and IPP facilitated by isopentenyl pyrophosphate isomerase[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0636 mL	20.3178 mL	40.6355 mL
5 mM	0.8127 mL	4.0636 mL	8.1271 mL
10 mM	0.4064 mL	2.0318 mL	4.0636 mL
50 mM	0.0813 mL	0.4064 mL	0.8127 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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