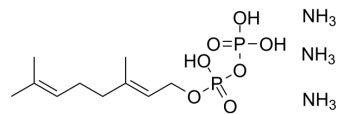


Geranyl diphosphate triammonium

Cat. No.:	HY-114295A
CAS No.:	116057-55-7
Molecular Formula:	C ₁₀ H ₂₉ N ₃ O ₇ P ₂
Molecular Weight:	365.3
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 42.8 mg/mL (117.16 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7375 mL	13.6874 mL	27.3748 mL
	5 mM	0.5475 mL	2.7375 mL	5.4750 mL
	10 mM	0.2737 mL	1.3687 mL	2.7375 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Geranyl diphosphate triammonium is a key intermediate in the isoprenoid biosynthesis pathway (IBP). Geranyl diphosphate triammonium plays key roles in cellular metabolism and is responsible for the production of both sterol and non-sterol isoprenoids^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Geranyl diphosphate (Geranyl pyrophosphate) triammonium, an isoprenoids (IsoP), involves in many different cellular processes including cholesterol synthesis^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Chhonker YS, et, al. Simultaneous Quantitation of Isoprenoid Pyrophosphates in Plasma and Cancer Cells Using LC-MS/MS. *Molecules*. 2018 Dec 11;23(12):3275.
- [2]. Chang TH, et, al. Structure of a heterotetrameric geranyl pyrophosphate synthase from mint (*Mentha piperita*) reveals intersubunit regulation. *Plant Cell*. 2010

Caution: Product has not been fully validated for medical applications. For research use only.

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