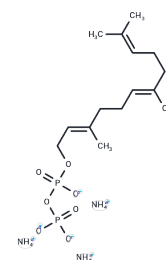


(E,E)-Farnesyl Pyrophosphate ammonium salt

Chemical Properties

CAS No. :	116057-57-9
Formula:	C ₁₅ H ₃₇ N ₃ O ₇ P ₂
Molecular Weight:	433.42
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Farnesyl Pyrophosphate ammonium (Farnesyl diphosphate ammonium) is a metabolic intermediate of the MVA pathway that acts as a newly identified danger signal to trigger acute cell death and induce neuronal loss in stroke.
Targets(IC50)	Others
In vitro	METHODS: B cell line A20 cells, mouse mastocytoma cell line P815, Jurkat T cell line, primary splenocytes, and primary thymocytes were treated with farnesyl pyrophosphate (15 µg/mL and 30 µg/mL) and the nuclear and plasma membranes were stained to capture morphological changes after FPP treatment by confocal microscopy. RESULTS: Within 5 minutes of adding farnesyl pyrophosphate, P815 cells began to show cytoplasmic swelling that increased over time until the plasma membrane eventually ruptured. [1]

Solubility Information

Solubility	H ₂ O: 100 mg/mL (230.72 mM), Sonication is recommended. Methanol:NH ₄ OH (70:30): 1 mg/mL (2.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3072 mL	11.5362 mL	23.0723 mL
5 mM	0.4614 mL	2.3072 mL	4.6145 mL
10 mM	0.2307 mL	1.1536 mL	2.3072 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 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

Chen J, et al. Farnesyl pyrophosphate is a new danger signal inducing acute cell death. PLoS Biol. 2021 Apr 26;19(4):e3001134.

Liu X, et al. Inhibition of farnesyl pyrophosphate synthase alleviates cardiomyopathy in diabetic rat. Cell Cycle. 2023 Mar-Mar;22(6):666-679.

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