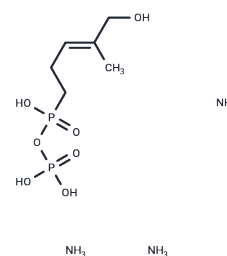


(E)-C-HDMAPP (ammonium salt)

Chemical Properties

CAS No. : 933030-60-5
 Formula: C₆H₂₃N₃O₇P₂
 Molecular Weight: 311.21
 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	Synthetic and natural alkyl phosphates, also known as phosphoantigens, stimulate the proliferation of $\gamma\delta$ -T lymphocytes. Isopentenyl pyrophosphate, and related derivatives including (E)-hydroxy-dimethyl-allyl pyrophosphate ((E)-HDMAPP), are particularly effective activators of $\gamma\delta$ -T cells. (E)-C-HDMAPP is the pyrophosphonate form of (E)-HDMAPP. The pyrophosphonate moiety in (E)-C-HDMAPP is much less susceptible to chemical or enzymatic hydrolysis than its pyrophosphate counterpart. As a result, (E)-C-HDMAPP is much more stable in solution and in vascular circulation. (E)-C-HDMAPP possesses comparable activity to (E)-HDMAPP, which is the most potent of the isoprenoid phosphoantigens. (E)-C-HDMAPP stimulates the synthesis of tumor necrosis factor (TNF- α) by $\gamma\delta$ -T lymphocytes with an IC ₅₀ value of 0.91 nM. (E)-C-HDMAPP also significantly increases the number of circulating $\gamma\delta$ -T cells in vivo, in cynomolgus monkeys.
Targets(IC50)	Others, TNF

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (32.13 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	3.2133 mL	16.0663 mL	32.1326 mL
5 mM	0.6427 mL	3.2133 mL	6.4265 mL
10 mM	0.3213 mL	1.6066 mL	3.2133 mL
50 mM	0.0643 mL	0.3213 mL	0.6427 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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