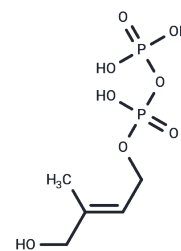


HMBPP lithium

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 396726-03-7 |
| Formula: | C ₅ H ₁₂ O ₈ P ₂ |
| Molecular Weight: | 262.09 |
| 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 | HMBPP lithium is an intermediate in isoprene biosynthesis, produced by bacteria and protozoa using the non-mevalonate pathway. It serves as a ligand for the inner domain of BTN3A1 and acts as an activator of human Vγ9/Vδ2T cells. Additionally, HMBPP lithium stimulates feeding behavior in mosquitoes. |
| Targets(IC50) | Others |
| In vitro | HMBPP (10 μM) lithium can stimulate feeding behavior in primary mosquito vectors when supplemented with HMBPP-enriched red blood cells. Additionally, HMBPP (10 μM, 12 hours) lithium activates purified human γδ T cells and enhances the production of CD69, intracellular perforin, IFN-γ, and TNF-α when incubated with γδ T cells and GBM cells (U251, U373, and primary GBM cultures). |
| In vivo | HMBPP (50 mg/kg, intramuscular injection) combined with IL-2 (subcutaneous injection, 1 million units, once daily for 5 days) induces the sustained accumulation of Vγ2Vδ2 T effector cells in the lungs of cynomolgus monkeys during inhalational Yersinia pestis infection. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.8155 mL | 19.0774 mL | 38.1548 mL |
| 5 mM | 0.7631 mL | 3.8155 mL | 7.631 mL |
| 10 mM | 0.3815 mL | 1.9077 mL | 3.8155 mL |
| 50 mM | 0.0763 mL | 0.3815 mL | 0.7631 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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