

BPH-1086

Chemical Properties

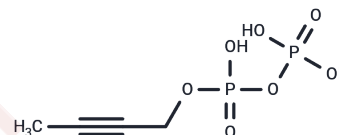
CAS No. : 1226901-43-4

Formula: C₄H₈O₇P₂

Molecular Weight: 230.05

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	BPH-1086 (compound 10) is an inhibitor of IspH, a domain that, when fused with ribosomal protein S1 (RPS1), can bind to mRNA or form part of the bacterial ribosome [1] [2].
Targets(IC50)	Others,Antibacterial
In vitro	IspH, also known as LytB, serves as the terminal enzyme in the nonmevalonate pathway. It possesses domains that may merge with the ribosomal protein S1 (RPS1), enabling IspH-RPS1 to either attach to mRNA or become integrated into the bacterial ribosome. This configuration is prevalent in anaerobic bacteria residing in the human gut, including pathogenic strains such as Clostridium botulinum, C. tetani, and Fusobacterium nucleatum. Consequently, inhibiting IspH not only directly eradicates bacteria, similar to conventional antibiotics but also targets persistent bacterial populations through microptosis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3469 mL	21.7344 mL	43.4688 mL
5 mM	0.8694 mL	4.3469 mL	8.6938 mL
10 mM	0.4347 mL	2.1734 mL	4.3469 mL
50 mM	0.0869 mL	0.4347 mL	0.8694 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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