

L-4-Aminoarabinose-bactoprenyl phosphate

Chemical Properties

CAS No. :	402491-79-6
Formula:	C60H100NO7P
Molecular Weight:	978.43
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	L-4-Aminoarabinose-bactoprenyl phosphate (L-4-Aminoarabinose-BP) serves as a substrate for the ArnT enzyme, playing a key role in the covalent modification of lipid A. It facilitates the transfer of L-4-aminoarabinose (Ara4N) to the lipid A segment of lipopolysaccharides (LPS), enabling the cationic modification of lipid A and thus conferring resistance to cationic antimicrobial peptides (CAMPs) in Gram-negative bacteria. This endogenous intermediate is synthesized intracellularly by a series of enzymes encoded by the <i>arn</i> operon, such as ArnC and ArnD, in Gram-negative organisms like Escherichia coli.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.022 mL	5.1102 mL	10.2205 mL
5 mM	0.2044 mL	1.022 mL	2.0441 mL
10 mM	0.1022 mL	0.511 mL	1.022 mL
50 mM	0.0204 mL	0.1022 mL	0.2044 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.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481