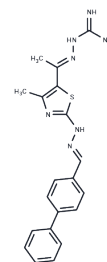


GlcN-6-P Synthase-IN-1

Chemical Properties

CAS No. :	2447602-44-8
Formula:	C ₂₀ H ₂₁ N ₇ S
Molecular Weight:	391.49
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	GlcN-6-P Synthase-IN-1 (Compound 4d) is a potent inhibitor of Glucosamine-6-phosphate (GlcN-6-P) synthase with an IC ₅₀ of 3.47 μM. This compound exhibits remarkable antimicrobial activity, excellent central nervous system penetration, and inhibits cytochrome P450, specifically the CYP3A4 isoform [1].
Targets(IC ₅₀)	Others, Antibacterial, Antifungal, Cytochromes P450
In vitro	GlcN-6-P Synthase-IN-1 (Compound 4d) exhibits antimicrobial properties, with MIC values of 1 ± 0.15 μg/mL for <i>S. aureus</i> , 0.5 ± 0.15 μg/mL for <i>B. subtilis</i> , and 4 ± 0.33 μg/mL for both <i>C. albicans</i> and <i>A. oryzae</i> , demonstrating its effective inhibition of these microorganisms [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5543 mL	12.7717 mL	25.5434 mL
5 mM	0.5109 mL	2.5543 mL	5.1087 mL
10 mM	0.2554 mL	1.2772 mL	2.5543 mL
50 mM	0.0511 mL	0.2554 mL	0.5109 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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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481