

D-Glucosamine 6-phosphate

Chemical Properties

CAS No. : 3616-42-0

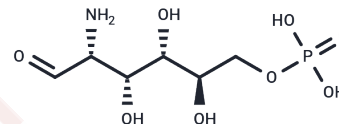
Formula: C₆H₁₄NO₈P

Molecular Weight: 259.15

Storage: Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

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| Description | D-Glucosamine 6-phosphate (D-GlcN-6-P) is an endogenous metabolite converted by GFAT (Glutamine-fructose-6-phosphate transferase), inhibiting nitric oxide synthesis in endothelial cells. It is suitable for diabetes research. |
| Targets(IC50) | Endogenous Metabolite, NOD |

Solubility Information

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| Solubility | H ₂ O: 100 mg/mL (385.88 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 | 3.8588 mL | 19.2938 mL | 38.5877 mL |
| 5 mM | 0.7718 mL | 3.8588 mL | 7.7175 mL |
| 10 mM | 0.3859 mL | 1.9294 mL | 3.8588 mL |
| 50 mM | 0.0772 mL | 0.3859 mL | 0.7718 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.

Reference

Wu G, et al. Presence of glutamine:fructose-6-phosphate amidotransferase for glucosamine-6-phosphate synthesis in endothelial cells: effects of hyperglycaemia and glutamine. Diabetologia. 2001 Feb;44(2):196-202.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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