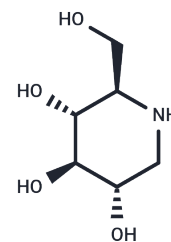


1-Deoxynojirimycin

Chemical Properties

CAS No. :	19130-96-2
Formula:	C ₆ H ₁₃ NO ₄
Molecular Weight:	163.17
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	1-Deoxynojirimycin (Moranoline) is a potent α -glucosidase inhibitor, suppressing postprandial blood glucose, thereby possibly preventing diabetes mellitus.
Targets(IC50)	Glucosidase, glycosidase, PI3K

Solubility Information

Solubility	DMSO: 17.86 mg/mL (109.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.79 mg/mL (10.97 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1286 mL	30.6429 mL	61.2858 mL
5 mM	1.2257 mL	6.1286 mL	12.2572 mL
10 mM	0.6129 mL	3.0643 mL	6.1286 mL
50 mM	0.1226 mL	0.6129 mL	1.2257 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

Jiang P, et al. Sci Rep. 2015 Feb 24;5:8563.

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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