

1-Deoxynojirimycin hydrochloride

Chemical Properties

CAS No. :	73285-50-4
Formula:	C ₆ H ₁₄ ClNO ₄
Molecular Weight:	199.633
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 hydrochloride (Moranoline) is a potent and selective inhibitor of alpha-glucosidase, most commonly found in mulberry leaves. Duvoglustat is used to suppress the elevation of postprandial hyperglycemia.
Targets(IC50)	Antibacterial, Antibiotic, Glucosidase, glycosidase, PI3K

Solubility Information

Solubility	DMSO: 255.00 mg/mL (1277.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10.00 mg/mL (50.09 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	5.0093 mL	25.0463 mL	50.0927 mL
5 mM	1.0019 mL	5.0093 mL	10.0185 mL
10 mM	0.5009 mL	2.5046 mL	5.0093 mL
50 mM	0.1002 mL	0.5009 mL	1.0019 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

Chen G H , Tong J J , Wang F , et al. Chronic adjunction of 1-deoxynojirimycin protects from age-related behavioral and biochemical changes in the SAMP8 mice[J]. Age, 2015, 37(5):102.

Ming-jie D , Xiao-Dong L , Qiu-Ting L , et al. A 1H-NMR Based Study on Hemolymph Metabolomics in Eri Silkworm after Oral Administration of 1-Deoxynojirimycin[J]. Plos One, 2015, 10(7):e0131696.

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