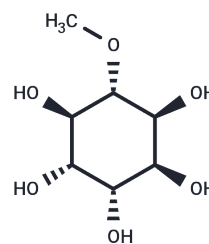


D-Pinitol

Chemical Properties

CAS No. :	10284-63-6
Formula:	C7H14O6
Molecular Weight:	194.18
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	D-Pinitol (Methylinositol) has anti-inflammatory activity. D-Pinitol(Methylinositol) exerts insulin-like activity, used for many diabetic associated conditions. D-Pinitol (Methylinositol) is a safe nutrient to reduce calorie consumption when supplementing with creatine.
Targets(IC50)	Influenza Virus

Solubility Information

Solubility	DMSO: 262.5 mg/mL (1351.84 mM),Sonication is recommended. H2O: 10 mg/mL (51.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (51.5 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.3 mM),Sonication is recommended. <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	5.1499 mL	25.7493 mL	51.4986 mL
5 mM	1.030 mL	5.1499 mL	10.2997 mL
10 mM	0.515 mL	2.5749 mL	5.1499 mL
50 mM	0.103 mL	0.515 mL	1.030 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

Rengarajan T1, Nandakumar N, Rajendran P , et al.D-pinitol promotes apoptosis in MCF-7 cells via induction of p53 and Bax and inhibition of Bcl-2 and NF- κ B.Asian Pac J Cancer Prev. 2014;15(4):1757-62.

Lin TH1, Tan TW, Tsai TH, et al.D-pinitol inhibits prostate cancer metastasis through inhibition of α V β 3 integrin by modulating FAK, c-Src and NF- κ B pathways.Int J Mol Sci. 2013 May 8;14(5):9790-802.

Liu SC1, Chuang SM, Tang CH.D-pinitol inhibits RANKL-induced osteoclastogenesis.Int Immunopharmacol. 2012 Mar;12(3):494-500.

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