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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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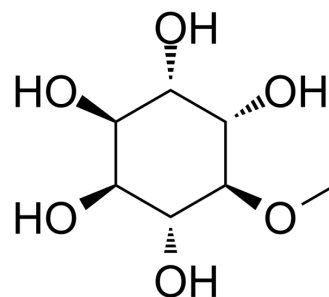
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D-Pinitol

Cat. No.:	HY-N0655
CAS No.:	10284-63-6
Molecular Formula:	C ₇ H ₁₄ O ₆
Molecular Weight:	194.18
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (643.73 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.1499 mL	25.7493 mL	51.4986 mL
		5 mM		1.0300 mL	5.1499 mL	10.2997 mL
		10 mM		0.5150 mL	2.5749 mL	5.1499 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (10.71 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (10.71 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.71 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	D-pinitol (3-O-Methyl-D-chiro-inositol) is a natural compound presented in several plants, like Pinaceae and Leguminosae plants. D-pinitol exerts hypoglycemic activity and protective effects in the cardiovascular system ^{[1][2]} . D-pinitol has antiviral and larvicidal activities ^[3] .
In Vitro	D-pinitol promotes apoptosis in MCF-7 cells via induction of p53 and Bax and inhibition of Bcl-2 and NF-κB ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Gao Y, et al. Effects of D-Pinitol on Insulin Resistance through the PI3K/Akt Signaling Pathway in Type 2 Diabetes Mellitus Rats. *J Agric Food Chem*. 2015 Jul 8;63(26):6019-26.
- [2]. Moreira LN, et al. Activation of eNOS by D-pinitol Induces an Endothelium-Dependent Vasodilatation in Mouse Mesenteric Artery. *Front Pharmacol*. 2018 May 22;9:528.
- [3]. Rengarajan T, 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.
- [4]. Sethi G, et al. Pinitol targets nuclear factor-kappaB activation pathway leading to inhibition of gene products associated with proliferation, apoptosis, invasion, and angiogenesis. *Mol Cancer Ther*. 2008 Jun;7(6):1604-14.
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Caution: Product has not been fully validated for medical applications. For research use only.

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