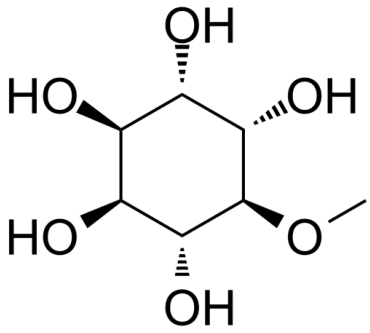
Data Sheet

Product Name:	D-Pinitol
Cat. No.:	CS-0009678
CAS No.:	10284-63-6
Molecular Formula:	C7H14O6
Molecular Weight:	194.18
Target:	Others
Pathway:	Others
Solubility:	DMSO : 125 mg/mL (643.73 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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]. **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].

References:

[1]. Gao Y, et al. Effects of D-Pinitol on Insulin Resistance through the PI3K/Akt Signaling Pathway in Type 2Diabetes 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 MouseMesenteric 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-κB. Asian Pac J Cancer Prev. 2014;15(4):1757-62.

CAIndexNames:

D-chiro-Inositol, 3-O-methyl-

SMILES:

O[C@@H]1[C@@H]([C@H]([C@@H]([C@H]([C@H]1O)O)O)OC)O

Caution: Product has not been fully validated for medical applications. For research use only.

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