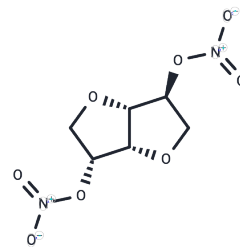


Isosorbide dinitrate

Chemical Properties

CAS No. :	87-33-2
Formula:	C ₆ H ₈ N ₂ O ₈
Molecular Weight:	236.14
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	Isosorbide dinitrate (Isordil) is a vasodilator used in the treatment of angina pectoris.
Targets(IC50)	NO Synthase

Solubility Information

Solubility	DMSO: 245 mg/mL (1037.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.47 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	4.2348 mL	21.1739 mL	42.3478 mL
5 mM	0.847 mL	4.2348 mL	8.4696 mL
10 mM	0.4235 mL	2.1174 mL	4.2348 mL
50 mM	0.0847 mL	0.4235 mL	0.847 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

Villarroya M, et al. Cardiovasc Drug Rev. 2005 Summer;23(2):149-60.

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