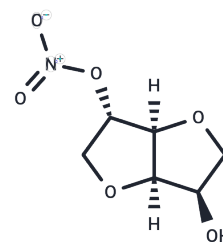


Isosorbide Mononitrate

Chemical Properties

CAS No. :	16051-77-7
Formula:	C ₆ H ₉ NO ₆
Molecular Weight:	191.14
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 Mononitrate (Corangin) is a Nitrate Vasodilator, dilating the blood vessels so as to reduce the blood pressure.
Targets(IC50)	Apoptosis,Endogenous Metabolite,Autophagy

Solubility Information

Solubility	H ₂ O: 35 mg/mL (183.11 mM),Sonication is recommended. Ethanol: 36 mg/mL (188.34 mM),Sonication is recommended. DMSO: 50 mg/mL (261.59 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 (10.46 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	5.2318 mL	26.1588 mL	52.3177 mL
5 mM	1.0464 mL	5.2318 mL	10.4635 mL
10 mM	0.5232 mL	2.6159 mL	5.2318 mL
50 mM	0.1046 mL	0.5232 mL	1.0464 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

Laufen, H., et al.: *Arzneim.-Forsch.*, 33, 980 (1983)

Goldberg, et al.: *Acta Physiol. Scand.*, 15, 173 (1948)

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