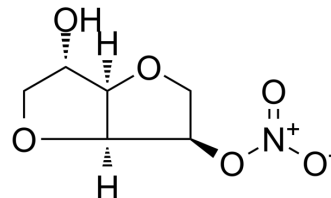


Isosorbide mononitrate

Cat. No.:	HY-B0642		
CAS No.:	16051-77-7		
Molecular Formula:	C ₆ H ₉ NO ₆		
Molecular Weight:	191.14		
Target:	Autophagy; Endogenous Metabolite		
Pathway:	Autophagy; Metabolic Enzyme/Protease		
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 : 100 mg/mL (523.18 mM; Need ultrasonic)
 H₂O : 50 mg/mL (261.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 33.33 mg/mL (174.37 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isosorbide mononitrate (Isosorbide-5-mononitrate) is a nitric acid compound used for angina pectoris by dilating blood vessels and lowering blood pressure.

CUSTOMER VALIDATION

- Nat Commun. 2021 May 11;12(1):2628.
- J Exp Clin Cancer Res. 2023 Jan 14;42(1):22.
- Anal Chim Acta. 8 September 2021, 339042.
- Anal Chim Acta. 2021 Jan 25;1143:117-123.

See more customer validations on www.MedChemExpress.com

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

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