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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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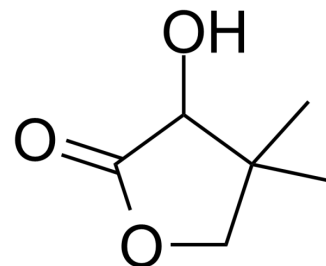
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DL-Pantolactone

Cat. No.:	HY-W053519		
CAS No.:	79-50-5		
Molecular Formula:	C ₆ H ₁₀ O ₃		
Molecular Weight:	130.14		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (768.40 mM; Need ultrasonic)
 DMSO : 100 mg/mL (768.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.6840 mL	38.4202 mL	76.8403 mL
	5 mM	1.5368 mL	7.6840 mL	15.3681 mL
	10 mM	0.7684 mL	3.8420 mL	7.6840 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (19.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (19.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (19.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DL-Pantolactone can be hydrolyzed to Pantoic acid by the lactonohydrolase of *Fusarium oxysporum*. DL-Pantolactone also can be used in the preparation of 3,5-dinitrobenzoyl-DL-pantolactone^{[1][2]}.

REFERENCES

[1]. Goodhue CT, et, al. The bacterial degradation of pantothenic acid. 3. Enzymatic formation of aldopantoic acid. Biochemistry. 1966 Feb;5(2):403-8.

[2]. Shimizu S, et, al. Optical resolution of pantolactone by a novel fungal enzyme, lactonohydrolase. Ann N Y Acad Sci. 1996 Oct 12;799:650-8.

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

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