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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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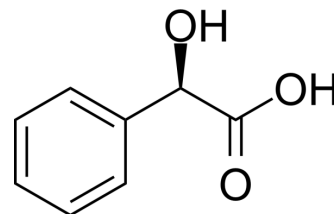
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D-(-)-Mandelic acid

Cat. No.:	HY-Y0585		
CAS No.:	611-71-2		
Molecular Formula:	C ₈ H ₈ O ₃		
Molecular Weight:	152.15		
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

DMSO : 100 mg/mL (657.25 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		6.5725 mL	32.8623 mL	65.7246 mL
	5 mM		1.3145 mL	6.5725 mL	13.1449 mL
	10 mM		0.6572 mL	3.2862 mL	6.5725 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 (16.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D-(-)-Mandelic acid is the isomer of Mandelic acid (HY-W015591). Mandelic acid is an orally active α hydroxycarboxylic acid that can be isolated from bitter almonds and Aesculus indica. Mandelic acid has anti-oxidant and anti-inflammatory activities. Mandelic acid reduces the liberation of auto-antigens, oxygen free radicals and proinflammatory mediators resulting in inhibition of protein denaturation, which is favorable in dismissing the pain related with arthritis^{[1][2][3]}.

CUSTOMER VALIDATION

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- Front Cell Dev Biol. 2021 Jun 11;9:684393.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Akhter S, et al. Toxicity studies and anti-arthritic effect of mandelic acid (2-hydroxy -2-phenyl acetic acid) using in vitro and in vivo techniques. Pak J Pharm Sci. 2021 Nov;34(6(Supplementary)):2281-2287.
- [2]. Tang LP, et al. DL-mandelic acid intercalated Zn-Al layered double hydroxide: A novel antimicrobial layered material. Colloids Surf B Biointerfaces. 2018 May 1;165:111-117.
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Caution: Product has not been fully validated for medical applications. For research use only.

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