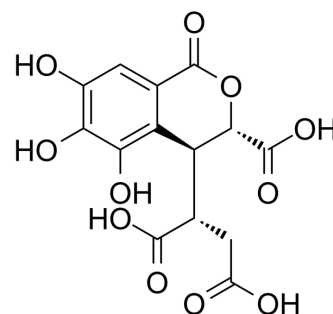


Chebolic acid

Cat. No.:	HY-N4170		
CAS No.:	23725-05-5		
Molecular Formula:	C ₁₄ H ₁₂ O ₁₁		
Molecular Weight:	356.24		
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 : 260 mg/mL (729.85 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8071 mL	14.0355 mL	28.0710 mL
	5 mM	0.5614 mL	2.8071 mL	5.6142 mL
	10 mM	0.2807 mL	1.4035 mL	2.8071 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: ≥ 2.17 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.17 mg/mL (6.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Chebolic acid, a phenolcarboxylic acid compound isolated from *Terminalia chebula*, has potent anti-oxidant activity, which breaks the cross-links of proteins induced by advanced glycation end-products (AGEs) and inhibits the formation of AGEs. Chebolic acid is effective in controlling elevated metabolic parameters, oxidative stress and renal damage, supporting its beneficial effect in diabetic nephropathy^{[1][2]}.

CUSTOMER VALIDATION

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- J Exp Med. 2021 May 3;218(5):e20202033.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Lee KW, et al. Protective effects of chebulic acid on alveolar epithelial damage induced by urban particulate matter. BMC Complement Altern Med. 2017 Jul 19;17(1):373.
- [2]. Silawat N, et al. Chebulic acid attenuates ischemia reperfusion induced biochemical alteration in diabetic rats. Pharm Biol. 2013 Jan;51(1):23-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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