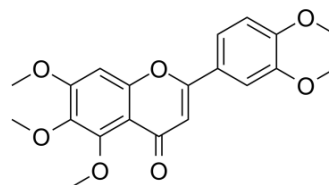


Sinensetin

Cat. No.:	HY-N0297		
CAS No.:	2306-27-6		
Molecular Formula:	C ₂₀ H ₂₀ O ₇		
Molecular Weight:	372.37		
Target:	PGE synthase; TNF Receptor		
Pathway:	Immunology/Inflammation; Apoptosis		
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 : 12.5 mg/mL (33.57 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6855 mL	13.4275 mL	26.8550 mL
	5 mM	0.5371 mL	2.6855 mL	5.3710 mL
	10 mM	0.2686 mL	1.3428 mL	2.6855 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: ≥ 1.25 mg/mL (3.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (3.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (3.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sinensetin is a methylated flavone found in certain citrus fruits. It is a process potent antiangiogenesis and anti-inflammatory, sinensetin enhances adipogenesis and lipolysis. *In vitro*: Sinensetin promotes adipogenesis in 3T3-L1 preadipocytes growing in incomplete differentiation medium, sinensetin enhances adipogenesis and lipolysis by increasing cAMP levels. [1] Sinensetin shows anti-inflammatory activity by regulating the protein level of inhibitor κB-α (IκB-α). [2] *In vivo*: Sinensetin has the most potent antiangiogenesis activity and the lowest toxicity, inhibits angiogenesis by inducing cell cycle arrest in the G0/G1 phase in HUVEC culture and downregulating the mRNA expressions of angiogenesis genes flt1, kdrl, and hras in zebrafish. [3]

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Jan;11(1):143-155.
- Nutrients. 2020 Aug 15;12(8):2462.

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REFERENCES

- [1]. Kang SI et al. Sinensetin enhances adipogenesis and lipolysis by increasing cyclic adenosine monophosphate levels in 3T3-L1 adipocytes. Biol Pharm Bull. 2015;38(4):552-8.
- [2]. Shin HS et al. Sinensetin attenuates LPS-induced inflammation by regulating the protein level of I κ B- α . Biosci Biotechnol Biochem. 2012;76(4):847-9.
- [3]. Lam IK et al. In vitro and in vivo structure and activity relationship analysis of polymethoxylated flavonoids: identifying sinensetin as a novel antiangiogenesis agent. Mol Nutr Food Res. 2012 Jun;56(6):945-56.
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Caution: Product has not been fully validated for medical applications. For research use only.

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