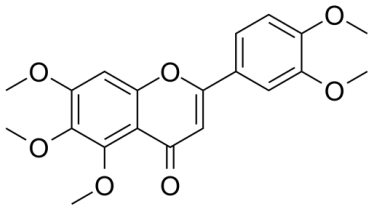
Data Sheet

Product Name:	Sinensetin
Cat. No.:	CS-5907
CAS No.:	2306-27-6
Molecular Formula:	C20H20O7
Molecular Weight:	372.37
Target:	PGE synthase; TNF Receptor
Pathway:	Apoptosis; Immunology/Inflammation
Solubility:	DMSO : 12.5 mg/mL (33.57 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Sinensetin is a methylated flavone found in certain citrus fruits. pocess potent antiangiogenesis and anti-inflammatory, sinensetin enhances adipogenesis and lipolysis. In vitro: Sinensetin promots 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]

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 IκB-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.

CAIndexNames:

4H-1-Benzopyran-4-one, 2-(3,4-dimethoxyphenyl)-5,6,7-trimethoxy-

SMILES:

O=C1C=C(C2=CC=C(OC)C(OC)=C2)OC3=CC(OC)=C(OC)C(OC)=C13

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

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