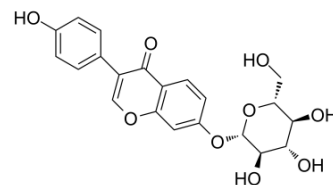


Daidzin

Cat. No.:	HY-N0018		
CAS No.:	552-66-9		
Molecular Formula:	C ₂₁ H ₂₀ O ₉		
Molecular Weight:	416.38		
Target:	Mitochondrial Metabolism; Reverse Transcriptase		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
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 : ≥ 34 mg/mL (81.66 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.4017 mL	12.0083 mL	24.0165 mL
	5 mM		0.4803 mL	2.4017 mL	4.8033 mL
	10 mM		0.2402 mL	1.2008 mL	2.4017 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: ≥ 2.08 mg/mL (5.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.08 mg/mL (5.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (5.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Daidzin is an isoflavone that has anti-oxidant, anti-carcinogenic, and anti-atherosclerotic activities; directly inhibits mitochondrial aldehyde dehydrogenase 2 (IC₅₀ = 80 nM) and is an effective anti-dipsotropic isoflavone.

CUSTOMER VALIDATION

- Free Radical Bio Med. 2020 May 20;152:8-17.
- Mol Med Rep. 2020 Sep;22(3):2373-2385.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Xie CI, et al. Daidzin, an antioxidant isoflavonoid, decreases blood alcohol levels and shortens sleep time induced by ethanol intoxication. Alcohol Clin Exp Res. 1994 Dec;18(6):1443-7.
- [2]. Keung WM, et al. Kudzu root: an ancient Chinese source of modern antidipsotropic agents. Phytochemistry. 1998 Feb;47(4):499-506.
- [3]. Keung WM, et al. Daidzin inhibits mitochondrial aldehyde dehydrogenase and suppresses ethanol intake of Syrian golden hamsters. Proc Natl Acad Sci U S A. 1997 Mar 4;94(5):1675-9.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA