(±)-Naringenin

Cat. No.: HY-W011641

CAS No.: 67604-48-2

Molecular Formula: $C_{15}H_{12}O_5$

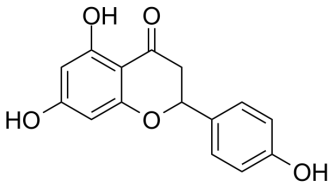
Molecular Weight: 272.25

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

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 : 120 mg/mL (440.77 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.6731 mL	18.3655 mL	36.7309 mL
5 mM	0.7346 mL	3.6731 mL	7.3462 mL
10 mM	0.3673 mL	1.8365 mL	3.6731 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3 mg/mL (11.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3 mg/mL (11.02 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3 mg/mL (11.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(±)-Naringenin is a naturally-occurring flavonoid. (±)-Naringenin displays vasorelaxant effect on endothelium-denuded vessels via the activation of BK_{Ca} channels in myocytes[1].

CUSTOMER VALIDATION

- J Ethnopharmacol. 2023 Jul 20;116941.
- Foods. 2022, 11(23), 3755
- Mol Med Rep. 2024 Feb;29(2):26.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Saponara S, et al. (+/-)-Naringenin as large conductance Ca(2+)-activated K+ (BKCa) channel opener in vascular smooth muscle cells. Br J Pharmacol. 2006 Dec;149(8):1013-21.

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