Cinnamtannin B-1

Cat. No.: HY-130237

CAS No.: 88082-60-4

Molecular Formula: $C_{45}H_{36}O_{18}$

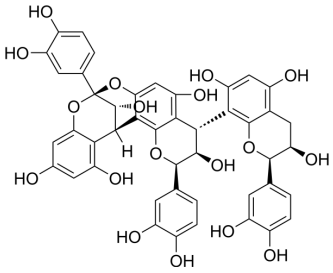
Molecular Weight: 864.76

Target: Reactive Oxygen Species

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (115.64 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1564 mL	5.7820 mL	11.5639 mL
	5 mM	0.2313 mL	1.1564 mL	2.3128 mL
	10 mM	0.1156 mL	0.5782 mL	1.1564 mL

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

BIOLOGICAL ACTIVITY

Description

Cinnamtannin B-1 is a proanthocyanidin with multiple biological functions, including antioxidant effects and inhibiting the production of reactive oxygen species (ROS). Cinnamtannin B-1 inhibits RANKL-induced osteoclastogenesis and prevents ovariectomy-induced osteoporosis in vivo. Cinnamtannin B-1 can be used for the research osteoporosis and colon cancers[1][2].

IC_{50} & Target

Reactive oxygen species[1]

REFERENCES

[1]. Meng Li, et al. Cinnamtannin B-1 Prevents Ovariectomy-Induced Osteoporosis via Attenuating Osteoclastogenesis and ROS Generation. Front Pharmacol. 2020 Jul 10;11:1023.

[2]. Patrick P Carriere, et al. Cinnamtannin B-1 inhibits cell survival molecules and induces apoptosis in colon cancer.Int J Oncol. 2018 Oct;53(4):1442-1454.

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

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