Procyanidin B3

Cat. No.: HY-N2345

CAS No.: 23567-23-9

Molecular Formula: $C_{30}H_{26}O_{12}$

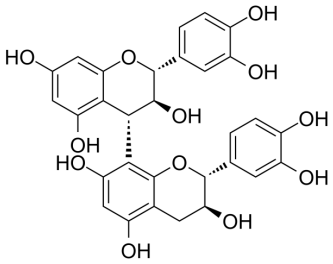
Molecular Weight: 578.52

Target: Histone Acetyltransferase

Pathway: Epigenetics

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 : 50 mg/mL (86.43 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7285 mL	8.6427 mL	17.2855 mL
	5 mM	0.3457 mL	1.7285 mL	3.4571 mL
	10 mM	0.1729 mL	0.8643 mL	1.7285 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: ≥ 2.5 mg/mL (4.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Procyanidin B3 is a natural product, acts as a specific HAT inhibitor, binds to the other site of p300 instead of the active site, selectively inhibits p300-mediated androgen receptor acetylation. Procyanidin B3 has no effect on HDAC or HMT (histone methyltransferase)[1].

IC_{50} & Target

p300[1]

REFERENCES

[1]. Choi KC, et al. Procyanidin B3, an inhibitor of histone acetyltransferase, enhances the action of antagonist for prostate cancer cells via inhibition of p300-dependent acetylation of androgen receptor. Biochem J. 2011 Jan 1;433(1):235-44.

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