

Catalog Number: CM04384

产品信息

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CM04384

CAS号:
20315-25-7

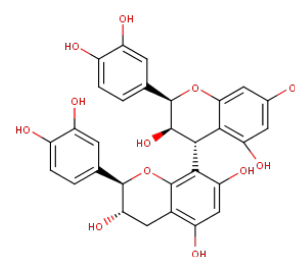
分子式:
 $C_{30}H_{26}O_{12}$

主要靶点:
TLR

主要通路:
免疫与炎症

分子量:
578.52

溶解度:
DMSO:23 mg/mL (39.76 mM), Sonification is recommended.



体外活性

Procyanidin B1 (100 μ g/mL) inhibits LPS-induced TNF- α production, and expression of MD-2, TRAF6, NF- κ B mRNA, phosphorylated p38 MAPK and NF- κ B protein in THP1 cells [1]. Procyanidin B1 (50-100 μ M) protects against A β oligomer-induced neuronal death. Procyanidin B1 potently inhibits the activation of caspase-3 at 100 μ M, caspase-8 at concentrations of 30, 50, and 100 μ M and caspase-9 at concentrations of 10, 30, 50, and 100 μ M [2]. Procyanidin B1 (10, 20, 30 μ M) significantly and dose-dependently induces expression of ACO and CPT1, with no obvious effect on mRNA expression of PPAR α [3].

细胞实验

To investigate the cytotoxic effect of Procyanidin B1, the viability of THP1 cells is assessed using the CCK8 assay. THP1 cells are treated with Procyanidin B1 for 18 h, and 10 μ L of CCK8 solution is then added to each well and the cultures are incubated for 4 h at 37°C. The optical density (OD) at 450 nm is measured using an ELx808 Absorbance Microplate Reader. The Procyanidin B1 concentration tested ranges from 50 to 200 μ g/mL. Each sample is tested in triplicate [1].

描述

Procyanidin B1, isolated from commonly eaten fruits, binds to the TLR4/MD-2 complex and has anti-inflammatory activity.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years