

Catalog Number: CM00462

产品信息

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CM00462

CAS号:
29106-49-8

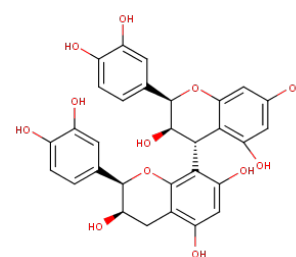
分子式:
 $C_{30}H_{26}O_{12}$

主要靶点:
Reactive Oxygen Species|NOD

主要通路:
NF- κ B信号通路|代谢|免疫与炎症

分子量:
578.52

溶解度:
DMSO:50 mg/mL (86.43 mM)



体外活性

Procyanidin B2 exerts both antioxidant and pro-oxidant properties by interacting with H₂O₂ and metal ions[1].

体内活性

Procyanidin B2 from cinnamon inhibited AGE accumulation in diabetic rat kidney and ameliorated AGE mediated pathogenesis of DN[2].

动物实验

Streptozotocin-induced diabetic rats were fed with either 3% cinnamon or 0.002% Procyanidin B2(PCB2)-fraction in diet for 12weeks. Biochemical analysis of blood and urine was performed at the end of experiment. Evaluation of glomerular markers that serve as indicators of renal function was done by immunohistochemistry, immunoblotting and qRT-PCR. Supplementation of diabetic rats with cinnamon and PCB2-fraction prevented glycation mediated RBC-IgG cross-links and HbA1c accumulation in diabetes rats. Cinnamon and PCB2-fraction also inhibited the accumulation of N-carboxy methyl lysine (CML), a prominent AGE in diabetic kidney[2].

描述

Procyanidin B2 has vascular protective, anti-diabetic nephropathy, anti-cancer, anti-inflammatory, and antioxidant activities. Procyanidin B2 inhibited NLRP3 inflammasome activation via suppression of AP-1 pathway.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year