

Catalog Number: CM01565

产品信息

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CM01565

CAS号:
78574-94-4

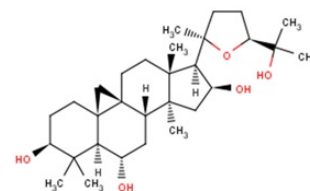
分子式:
C₃₀H₅₀O₅

主要靶点:
Epigenetic Reader
Domain|Telomerase

主要通路:
DNA损伤和修复|表观遗传

分子量:
490.72

溶解度:
DMSO:98 mg/mL (199.71 mM)



体外活性

Cyclogalegenol has important anti-inflammatory activity by inhibiting lymphocytes activation, proliferation and cytokines expression, this effect may be related to reduction of overall intracellular Ca²⁺ overload[1].

体内活性

oral administration of Cyclogalegenol for 7 days attenuated depression-like behavior in experimental mice.Cyclogalegenol stimulates telomerase activity in human neonatal keratinocytes and rat neuronal cells, and induces CREB activation followed by tert and bcl2 expression. Furthermore, Cyclogalegenol may have a novel therapeutic role in depression[2].

动物实验

Mice were administered Cyclogalegenol 100 mg/kg, or water by oral gavage, or imipramine 15 mg/kg, a currently used tricyclic antidepressant, by intraperitoneal injection for 7 days as well as 45 min before testing. The forced swim test was performed as described previously, by placing a mouse in a glass cylinder (height: 30 cm, diameter: 15 cm) filled with water to a depth of 12 cm. Mice were tested in the cylinder for 6 min. The water was changed before testing another animal. All test sessions were recorded. Depression-like behavior was determined by observing the immobility of the mouse, where immobility is defined as when a mouse floats passively in the water with minimal movement to keep its head above the water. The total period of immobility during the last 4 min of the test session was determined[2].

细胞实验

Mouse lymphocytes were obtained from spleens and subjected to Con A for 24 h. Herein, the cells were treated with different concentrations of Cyclogalegenol. Cell viability was assayed by MTT. Pretreated by Cyclogalegenol and stimulated by Con A, the expression of CD69 and CD25, Th1/Th2/Th17 cytokines, cell cycle, proliferation and intracellular Ca²⁺ concentration ([Ca²⁺]_i) were analyzed by flow cytometry[1].

描述

Astragaloside (Cycloastragenol) is a triterpenoid saponin compound and a hydrolysis product of the main active ingredient in Astragalus membranaceus. Cycloastragenol (CAG) may have a novel therapeutic role in depression

储存

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