Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Ginsenoside Rc

Catalog No: tcsc3837

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
11021-14-0

Formula:
$C_{53}H_{90}O_{22}$

Pathway:
Immunology/Inflammation;Neuronal Signaling;Membrane Transporter/Ion Channel;Apoptosis

Target:
Interleukin Related;GABA Receptor;GABA Receptor;TNF Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Panaxoside Rc

Observed Molecular Weight:
1079.27

Product Description

Ginsenoside Rc, one of major Ginsenosides from *Panax ginseng*, enhances GABA receptor$_A$ (**GABA$_A$**)-mediated ion channel currents (I$_{GABA}$). Ginsenoside Rc inhibits the expression of **TNF-α** and **IL-1β**.

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IC50 & Target: GABA receptor[1]

TNF-α, IL-1β[2]

In Vitro: Ginsenoside Rc, one of major Ginsenosides from Panax ginseng, enhances γ-aminobutyric acid (GABA) receptor$_A$ (GABA$_A$)-mediated ion channel currents. Ginsenoside Rc enhances GABA-mediated ion currents in oocytes expressing the GABA$_A$ receptor[1]. Ginsenoside Rc significantly inhibits the expression of macrophage-derived cytokines, such as TNF-α and IL-1β. Ginsenoside Rc also markedly suppresses the activation of TANK-binding kinase 1/IκB kinase ε/interferon regulatory factor-3 and p38/ATF-2 signaling in activated RAW264.7 macrophages, human synovial cells, and HEK293 cells. Ginsenoside Rc exerts its anti-inflammatory actions by suppressing TANK-binding kinase 1/IκB kinase ε/interferon regulatory factor-3 and p38/ATF-2 signaling. Ginsenoside Rc suppresses the nuclear translocation of phospho-ATF-2 and phospho-FRA-1, whereas the translocation of p65 at its peak time points (30 and 60 min) is not decreased by Ginsenoside Rc treatment. Ginsenoside Rc regulates the expression of the proinflammatory cytokine TNF-α, which is produced by macrophages, by suppressing AP-1 activation[2].