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

Yangonin

Catalog No: tcsc4243

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
500-62-9

Formula:
$C_{15}H_{14}O_4$

Pathway:
GPCR/G Protein;NF-κB

Target:
Cannabinoid Receptor;NF-κB

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
258.27

Product Description

Yangonin exhibits affinity for the human recombinant cannabinoid **CB1 receptor** with an $\mathbf{IC_{50}}$ and a $\mathbf{K_i}$ of 1.79 ± 0.53 μM and 0.72±0.21 μM, respectively.

IC50 & Target: IC50: 1.79±0.53 μM (hCB1 receptor), >10 μM (hCB2 receptor)[1]

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Ki: 0.72±0.21 μM (hCB1 receptor), >10 μM (hCB2 receptor)[1]

RelA/p65[2]

In Vitro: Yangonin is one of the six major kavalactones found in *Piper methysticum*.Yangonin potently inhibits NF-κB activation through suppression of the transcriptional activity of the RelA/p65 subunit of NF-κB. Yangonin significantly inhibits the induced expression of the NF-κB-reporter gene. However, Yangonin does not interfere with TNF-α-induced inhibitor of κBα (IκBα) degradation, p65 nuclear translocation, and DNA-binding activity of NF-κB. Yangonin inhibits not only the induced NF-κB activation by overexpression of RelA/p65, but also transactivation activity of RelA/p65. Yangonin does not inhibit TNF-α-induced activation of p38, but it significantly impairs activation of ERK 1/2 and stress-activated protein kinase/JNK[2].