Web: www.taiclone.com
Tel: +886-2-2735-9682
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6,2'-Dihydroxyflavone

Catalog No: tcsc0040249

Available Sizes

Size: 50mg

Specifications

CAS No:
92439-20-8

Formula:
$C_{15}H_{10}O_4$

Pathway:
Neuronal Signaling;Membrane Transporter/Ion Channel

Target:
GABA Receptor;GABA Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 155 mg/mL (609.66 mM; Need ultrasonic and warming)

Observed Molecular Weight:
254.24

Product Description

6,2\'-Dihydroxyflavone is a novel antagonist of **$GABA_A$ receptor**.

IC50 & Target: $GABA_A$ receptor[1]

In Vitro: 6,2\'-Dihydroxyflavone is a novel antagonist of $GABA_A$ receptor. 6,2\'-Dihydroxyflavone inhibits [^{3}H]-flunitrazepam binding to the rat cerebral cortex membranes with a K_i of 37.2±4.5 nM. The current elicited with the EC_{50} concentration of GABA is decreased to 73.6±1.9% of control by co-application of 5 μM 6,2\'-Dihydroxyflavone (n=5), compare to a decrease to 65.9±3.0% by 1 μM FG-7142 (n=5). The EC_{50} for GABA dose response increases from 47.6 to 59.7 μM upon co-application of 5 μM 6,2\'-

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Dihydroxyflavone, and the maximal GABA-current is decreased[1].

In Vivo: 6,2\'-Dihydroxyflavone-treated mice exhibit significant differences from control mice with respect to the percentage of open arms entries [$F_{(4,73)}$=8.01, P (4,73)=5.19, P(4,73)= 0.79,P=0.54]. The post-hoc NewmaneKeuls' tests confirm that 6,2\'-Dihydroxyflavone significantly decreases the percentage of open arm entries and time spent in open arms at the doses of 8 and 16 mg/kg. 6,2\'-Dihydroxyflavone treatment similarly increases step-through latency [$F_{(4,75)}$=4.71, P[1].