

6,2'-Dihydroxyflavone

Catalog No: tcsc0040249

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Available Sizes

Size: 50mg

Specifications

CAS No:

92439-20-8

Formula:

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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 $GABA_{\Delta}$ receptor.

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IC50 & Target: GABA<sub>A</sub> receptor<sup>[1]</sup>
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In Vitro: 6,2\'-Dihydroxyflavone is a novel antagonist of GABA_A receptor. 6,2\'-Dihydroxyflavone inhibits [³H]-flunitrazepam binding to the rat cerebral cortex membranes with a K_i of 37.2±4.5 nM. The current elicited with the EC₅₀ concentration of GABA is decreased to 73.6±1.9% of control by co-application of 5 μ M 6,2\'-Dihydroxyflavone (n=5), compare to a decrease to 65.9±3.0% by 1 μ M FG-7142 (n=5). The EC₅₀ for GABA dose response increases from 47.6 to 59.7 μ M upon co-application of 5 μ M 6,2\'-



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 $[F_{(4,75)}=4.71, P[1]]$.



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