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

(S) -Willardiine

Catalog No: tcsc3618

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
21416-43-3

Formula:
$C_7H_9N_3O_4$

Pathway:
Membrane Transporter/Ion Channel;Neuronal Signaling

Target:
iGluR;iGluR

Purity / Grade:
>98%

Solubility:
DMSO :

Alternative Names:
(-)-Willardiine

Observed Molecular Weight:
199.16

Product Description

(S)-Willardiine is a potent agonist of AMPA/kainate receptors with EC50 of 44.8 uM.

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IC50 value: 44.8 uM(EC50) [1]

Target: AMPA/kainate receptor agonist

in vitro: The (S)- but not (R)-isomers of willardiine and 5-bromowillardiine were potent agonists, producing rapidly but incompletely desensitizing responses [1]. At a concentration of 1.8 mM, Ca2+ inhibited the currents induced by 100 microM willardiine by approximately 50% [2].

in vivo: In newborn mice (P5, histopathology at P10), local injection of the AMPA receptor agonist S-bromo-willardiine at day 5 after birth induced cortical damage and white matter damage, which was reduced in a dose-dependent manner by the AMPA receptor antagonists [3].