

# (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

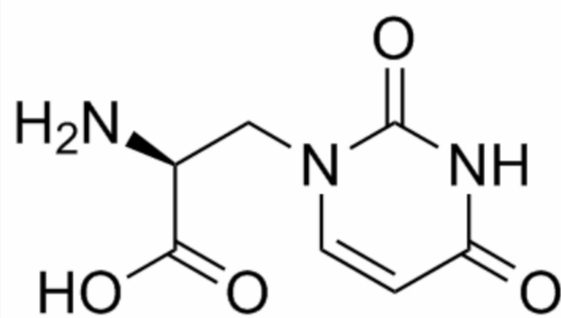
(S)-Willardiine is a potent agonist of AMPA/kainate receptors with EC50 of 44.8 uM.

IC50 value: 44.8  $\mu$ M(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,  $\text{Ca}^{2+}$  inhibited the currents induced by 100  $\mu\text{M}$  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].



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