

WAY-100635 (maleate salt)

Catalog No: tcsc0417



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

634908-75-1

Formula:

$C_{29}H_{38}N_4O_6$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 34 mg/mL (63.12 mM)

Observed Molecular Weight:

538.64

Product Description

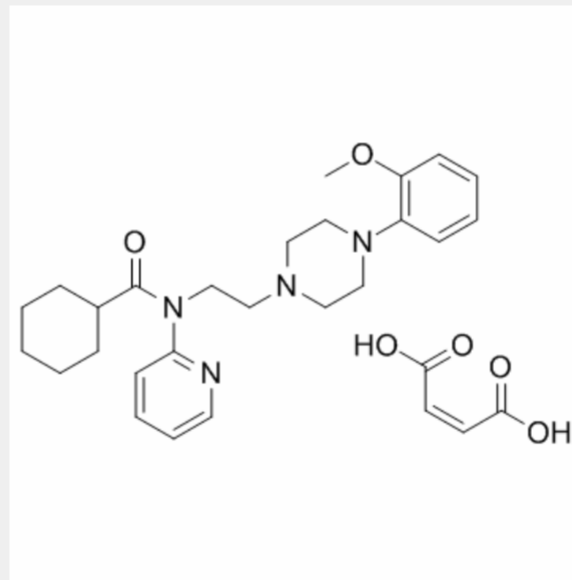
WAY-100635 maleate is a potent and selective 5-hydroxytryptamine_{1A} antagonist with an IC₅₀ of 0.95 ± 0.12 nM for 5-HT.

IC50 Value: 0.95 nM

Target: 5-HT Receptor

in vitro: WAY 100635 has an IC₅₀ of 1.35 nM and is > 100-fold selective for the 5-HT_{1A} site relative to a range of other CNS receptors. The B_{max} of [³H]WAY 100635 specific binding is consistently 50-60% greater than that of the agonist radioligand, [³H]8-OH-DPAT. Mn²⁺, but not guanine nucleotides, inhibits [³H]WAY 100635-specific binding. WAY 100635 has no 5-HT_{1A} receptor agonist actions, but dose-dependently blocks the effects of agonists at both the postsynaptic 5-HT_{1A} receptor in the CA1 region of the hippocampus, and the somatodendritic 5-HT_{1A} receptor located on dorsal raphe 5-HT neurones. [³H]WAY 100635 has a K_d of approximately 2.5 nM. In the isolated guinea-pig ileum WAY 100635 is a potent and, at high concentrations, an insurmountable antagonist of the 5-HT_{1A} receptor agonist action of 5-carboxamidotryptamine, with an apparent pA₂ value (at 0.3 nM) of 9.71.

in vivo: WAY 100635 blocks the inhibitory action of 8-OH-DPAT on dorsal raphe neuronal firing in the anaesthetised rat at doses which has no inhibitory action per se. In behavioural models, WAY 100635 itself induces no overt behavioural changes but potently antagonises the behavioural syndrome induced by 8-OH-DPAT in the rat and guinea-pig (minimum effective dose = 0.003 mg/kg s.c. and ID₅₀ = 0.01 mg/kg s.c., respectively). WAY 100635 also blocks the hypothermia induced by 8-OH-DPAT in the mouse and rat with ID₅₀ values of 0.01 mg/kg s.c.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!