



Tropisetron (Hydrochloride)

Catalog No: tcsc0753

Available Sizes
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 105826-92-4
Formula: C ₁₇ H ₂₁ CIN ₂ O ₂
Pathway: Neuronal Signaling;GPCR/G Protein
Target: 5-HT Receptor;5-HT Receptor
Purity / Grade: >98%
Solubility: 10 mM in DMSO
Alternative Names: SDZ-ICS 930
Observed Molecular Weight: 320.81

Product Description





Tropisetron is a selective 5-HT3 receptor antagonist and α 7-nicotinic receptor agonist with an IC50 of 70.1 \pm 0.9 nM for 5-HT3 receptor.

IC50 value: $70.1 \pm 0.9 \text{ nM}$

Target: 5-HT3 receptor; α7-nicotinic receptor

in vitro: Retinal ganglion cells(RGCs) pretreated with 100 nM tropisetron before glutamate increased cell survival to an average of 105% compared to controls. Inhibition studies using the alpha7 nAChR antagonist, MLA (10 nM), support the hypothesis that tropisetron is an effective neuroprotective agent against glutamate-induced excitotoxicity; mediated by α 7 nAChR activation. Tropisetron had no discernible effects on pAkt levels but significantly decreased p38 MAPK levels associated with excitotoxicity from an average of 15 ng/ml to 6 ng/ml [2]. Tropisetron, but not granisetron, significantly inhibits the phosphatase activity of calcineurin, over-expresses the CB(1) receptors at both transcriptional and protein levels, and reduces cAMP content in cerebellar granule neurons (CGNs) [4].

in vivo: Animals were treated intracerebroventricularly with tropisetron, mCPBG (selective 5-HT3 receptor agonist) or mCPBG plus tropisetron on days 1, 3, 5 and 7. Tropisetron significantly diminished the elevated levels of these markers and reversed the cognitive deficit. Interestingly, tropisetron was also found to be a potent inhibitor of calcineurin phosphatase activity [1]. tropisetron (5mg/kg/day) plus mCPBG (10mg/kg/day), and granisetron (5mg/kg/day) intraperitoneally on days 3-35 post-immunization. Treatment with tropisetron and granisetron markedly suppressed the clinical symptoms of EAE (p

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