

Tropisetron

Catalog No: tcsc1146



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

89565-68-4

Formula:

$C_{17}H_{20}N_2O_2$

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:

284.35

Product Description

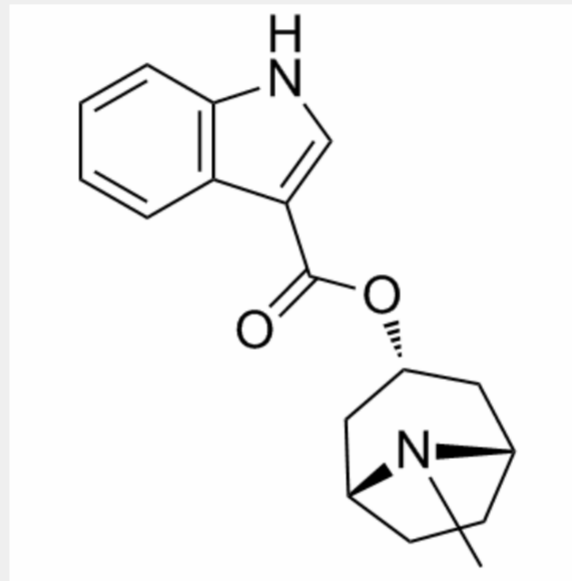
Tropisetron(SDZ-ICS 930) is a selective 5-HT₃ receptor antagonist and α 7-nicotinic receptor agonist with an IC₅₀ of 70.1 ± 0.9 nM for 5-HT₃ receptor.

IC₅₀ value: 70.1 ± 0.9 nM [1]

Target: 5-HT₃ receptor

in vitro: Tropisetron specifically inhibited both IL-2 gene transcription and IL-2 synthesis in stimulated T cells. tropisetron inhibited both the binding to DNA and the transcriptional activity of NFAT and AP-1. We also observed that tropisetron is a potent inhibitor of PMA plus ionomycin-induced NF-(kappa)B activation but in contrast TNF(alpha)-mediated NF-(kappa)B activation was not affected by this antagonist [2]. Tropisetron prevents the phosphorylation and thus activation of the p38 MAPK, which is involved in post-transcriptional regulation of various cytokines [3].

in vivo: Two different doses of tropisetron (5 and 10 mg/kg) or vehicle were administered intraperitoneally 30 min before pMCAO. Neurological deficit scores, mortality rate and infarct volume were determined 24 h after permanent focal cerebral ischemia [4].



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