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

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

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Tropisetron(SDZ-ICS 930) is a selective 5-HT3 receptor antagonist and α7-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].