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

Cisapride

Catalog No: tcsc1762

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
81098-60-4

Formula:
$C_{23}H_{29}ClFN_3O_4$

Pathway:
Neuronal Signaling;GPCR/G Protein

Target:
5-HT Receptor;5-HT Receptor

Purity / Grade:
>98%

Solubility:
H2O :

Alternative Names:
R 51619;(±)-Cisaprid

Observed Molecular Weight:
465.95

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Product Description

Cisapride(R 51619) is a nonselective 5-HT4 receptor agonist, it is also a potent hERG potassium channel inhibitor.

IC50 Value: 0.14 μM(EC50 for 5-HT4 receptor) [1]; 9.8 μM (Kv4.3) [2]

Target: 5-HT4 Receptor

in vitro: Cisapride showed higher inhibitory effects on a hERG current, as indicated by its IC50 of 9.4 × 10-9 M [1]. cisapride on cloned Kv4.3 channels stably expressed in Chinese hamster ovary cells were investigated using the whole-cell patch-clamp technique. Cisapride inhibited Kv4.3 in a concentration-dependent manner with IC50 values of 9.8 uM [2].

in vivo: Cisapride (1 mg/kg i.v.), when administered 10 min after the start of GR113808 infusion, did not stimulate either antral or colonic motor activity under treatment with GR113808. The enhanced antral or colonic motor activity induced by these drugs was antagonized by treatment with GR113808 in dogs [3]. cisapride could not bring about more colitis damages through 5HT(4) receptors. Based on the present study further researches are required for investigating the exact roles of 5HT(4) receptors in the pathogenesis of ulcerative colitis[4].

Toxicity: cardiac arrythmies