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

Azasetron (hydrochloride)

Catalog No: tcsc2459

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
123040-16-4

Formula:
$C_{17}H_{21}Cl_2N_3O_3$

Pathway:
Neuronal Signaling;GPCR/G Protein

Target:
5-HT Receptor;5-HT Receptor

Purity / Grade:
>98%

Solubility:
H2O : ≥ 3.9 mg/mL (10.10 mM)

Alternative Names:
Y-25130 hydrochloride

Observed Molecular Weight:
386.27

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Product Description

Azasetron HCl is a selective 5-HT3 receptor antagonist with IC50 of 0.33 nM used in the management of nausea and vomiting induced by cancer chemotherapy.

Target: 5-HT3 Receptor

Azasetron Hydrochloride is a 5-HT3 receptor antagonist which is used as an anti-emetic.

Azasetron inhibited the specific binding of [3H]quipazine to 5-HT3 receptors at the synaptic membranes of the rat cerebral cortex with a Ki value of 2.9 nM. Azasetron showed low affinity for histamine H1 receptors (IC50 = 4.4 microM) but it could not reveal any affinities for the other receptors (5-HT1A, 5-HT2, dopamine D1, dopamine D2, alpha 1-adrenoceptor, alpha 2-adrenoceptor, muscarine and benzodiazepine) even at a 10 microM concentration [1]. Azasetron (0.1-1.0 mg/kg) dose-dependently prolonged the latency to the first vomiting and decreased the number of vomitings induced by cisplatin in dogs. Azasetron is an orally active antiemetic compound against cisplatin and doxorubicin/cyclophosphamide-induced emeses; and its the antiemetic potency is similar to those of granisetron and ondansetron, but superior to those of metoclopramide and domperidone [2].