

# 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 :  $\geq 3.9$  mg/mL (10.10 mM)

**Alternative Names:**

Y-25130 hydrochloride

**Observed Molecular Weight:**

386.27

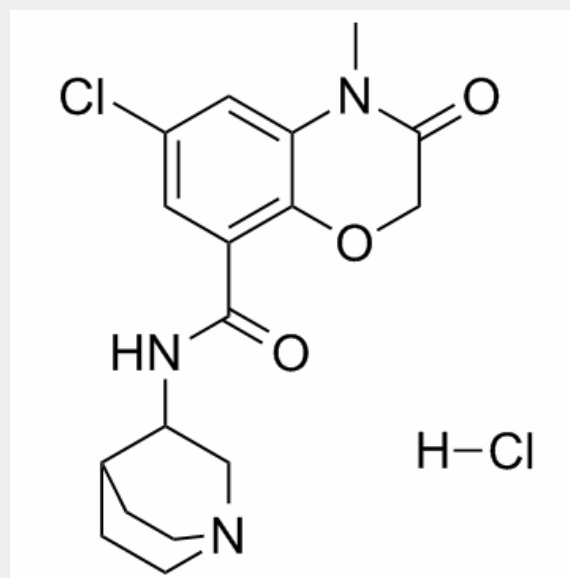
## Product Description

Azasetron HCl is a selective 5-HT<sub>3</sub> receptor antagonist with IC<sub>50</sub> of 0.33 nM used in the management of nausea and vomiting induced by cancer chemotherapy.

Target: 5-HT<sub>3</sub> Receptor

Azasetron Hydrochloride is a 5-HT<sub>3</sub> receptor antagonist which is used as an anti-emetic.

Azasetron inhibited the specific binding of [<sup>3</sup>H]quipazine to 5-HT<sub>3</sub> receptors at the synaptic membranes of the rat cerebral cortex with a K<sub>i</sub> value of 2.9 nM. Azasetron showed low affinity for histamine H<sub>1</sub> receptors (IC<sub>50</sub> = 4.4 microM) but it could not reveal any affinities for the other receptors (5-HT<sub>1A</sub>, 5-HT<sub>2</sub>, dopamine D<sub>1</sub>, dopamine D<sub>2</sub>, 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].



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