Web: www.taiclone.com
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# Granisetron (Hydrochloride)

## Catalog No: tcsc1510

### Available Sizes

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
107007-99-8

**Formula:**
$C_{18}H_{25}ClN_4O$

**Pathway:**
Neuronal Signaling;GPCR/G Protein

**Target:**
5-HT Receptor;5-HT Receptor

**Purity / Grade:**
>98%

**Solubility:**
10 mM in DMSO

**Alternative Names:**
BRL 43694A

**Observed Molecular Weight:**
348.87

## Product Description

Granisetron Hcl(BRL 43694A) is a serotonin 5-HT3 receptor antagonist used as an antiemetic to treat nausea and vomiting following chemotherapy.

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IC50 Value: 17uM (GR reduced 5-HT-evoked contractions) [1]

Target: 5-HT3 receptor

in vitro: In rat forestomach GR reduced 5-HT-evoked contractions at IC50 17 /- 6 uM. In isolated rabbit heart, GR 0.003-0.03 nM dose-dependently reduced s-HT tachycardia; at high levels GR reduced submaximal and maximal responses to 5-HT [1].

in vivo: Leukocyte accumulation was dose-dependently inhibited by granisetron both at 6 and 72 h after induction of inflammation. Granisetron increased PGE(2) level at a lower dose (50 microg/pouch) but higher doses (100 and 200 microg/pouch) inhibited the release. At the same time, TNFalpha production was decreased by the lower dose and increased by higher doses of granisetron in a reciprocal fashion [2]. The GTDS displayed non-inferiority to oral granisetron: complete control was achieved by 60% of patients in the GTDS group, and 65% in the oral granisetron group (treatment difference, -5%; 95% confidence interval, -13-3). Both treatments were well tolerated, the most common adverse event being constipation [3].

Clinical trial: Effect of External Heat on a Transdermal Granisetron Patch in Pharmacokinetics (PK) of Healthy Subjects. Phase 1