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## Product Data Sheet

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Product Name: Granisetron

Cat. No.: GC12398

**Chemical Properties**

Cas. No. 109889-09-0

Chemical Name 1-methyl-N-[(1S,5R)-9-methyl-9-azabicyclo[3.3.1]nonan-3-yl]indazole-3-carboxamide

SMILES CN1C2CCCC1CC(C2)NC(=O)C3=NN(C4=CC=CC=C43)CFormula  $C_{18}H_{24}N_4O$  M.Wt 312.41

Solubility DMSO : 11mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Description: IC50 Value: 17uM (GR reduced 5-HT-evoked contractions) [1] Granisetron is a serotonin 5-HT3 receptor antagonist used as an antiemetic to treat nausea and vomiting following chemotherapy. 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].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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

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