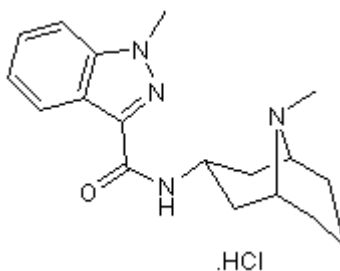


Certificate of Analysis

Product Name: Granisetron hydrochloride **Catalog No.:** 2903 **Batch No.:** 2
CAS Number: 107007-99-8
IUPAC Name: 1-Methyl-N-[(3-endo)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-1*H*-indazole-3-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₄N₄O.HCl
Batch Molecular Weight: 348.87
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.97	7.22	16.06
Found	61.92	7.25	16.02

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CAS Number: 107007-99-8
IUPAC Name: 1-Methyl-N-[(3-endo)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-1H-indazole-3-carboxamide hydrochloride

Description:

5-HT₃ receptor antagonist that possesses potent antiemetic activity.

Physical and Chemical Properties:

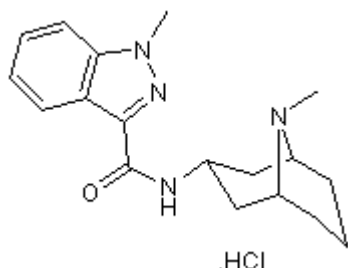
Batch Molecular Formula: C₁₈H₂₄N₄O.HCl

Batch Molecular Weight: 348.87

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Sanger and Nelson (1989) Selective and functional 5-hydroxytryptamine₃ receptor antagonism by BRL 43694 (granisetron). *Eur.J.Pharmacol.* **159** 113. PMID: 2540014.

Plosker and Goa (1991) Granisetron. A review of its pharmacological properties and therapeutic use as an antiemetic. *Drugs* **42** 805. PMID: 1723376.

Martin et al (1998) Anti-emetic effect of Ondansetron and Granisetron after exposure to mixed neutron and gamma irradiation. *Rad.Res.* **149** 631.

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