TOCRIS
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Print Date: Mar 25th 2019

Certificate of Analysis

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Product Name: **Tropisetron hydrochloride** **Catalog No.: 2459** **Batch No.: 2**

CAS Number: 105826-92-4

IUPAC Name: (3-endo)-8-Methyl-8-azabicyclo[3.2.1]oct-3-yl 1*H*-indole-3-carboxylic acid ester monohydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{20}N_2O_2.HCl$

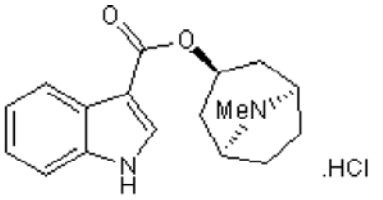
Batch Molecular Weight: 320.82

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.64	6.6	8.73
Found	63.76	6.51	8.7

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Description:

Potent, orally active 5-HT_3 receptor antagonist. Antiemetic. Also partial agonist of α7 nAChR. Activates $α7^{Q79G}$-GlyR chimeric ion channels (EC_{50} = 38 nM)

Physical and Chemical Properties:

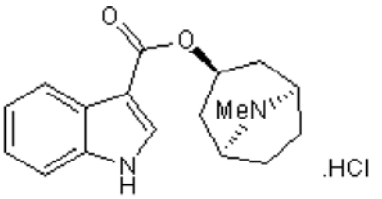
Batch Molecular Formula: $C_{17}H_{20}N_2O_2$.HCl

Batch Molecular Weight: 320.82

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



(and enantiomer)

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 50 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:

Mhatre *et al* (2004) 5-HT_3 antagonist ICS 205-930 enhances naltrexone's effects on ethanol intake. Eur.J.Pharmacol. ***491*** 149. PMID: 15140631.

Papke *et al* (2004) Activity of α7-selective agonists at nicotinic and serotonin $5HT_3$ receptors expressed in *Xenopus* oocytes. Bioorg.Med.Chem.Lett. ***14*** 1849. PMID: 15050614.

Middlemiss and Tricklebank (1992) Centrally active 5-HT receptor agonists and antagonists. Neurosci.Biobehav.Rev. ***16*** 75. PMID: 1553108.

Seynaeve *et al* (1991) 5-HT3 receptor antagonists, a new approach in emesis: a review of ondansetron, granisetron and tropisetron. Anticancer Drugs ***2*** 343. PMID: 1665723.