Print Date: Jun 11th 2019

Certificate of Analysis

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Product Name: **Ondansetron hydrochloride** **Catalog No.: 2891** **Batch No.: 2**

CAS Number: 99614-01-4

IUPAC Name: 1,2,3,9-Tetrahydro-9-methyl-3-[(2-methyl-1*H*-imidazol-1-yl)methyl]-4*H*-carbazol-4-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{19}N_3O.HCl.1¾H_2O$

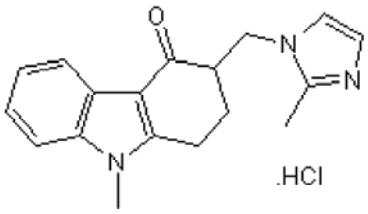
Batch Molecular Weight: 361.35

Physical Appearance: Off White solid

Solubility: water to 50 mM
DMSO to 100 mM
ethanol to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.83	6.55	11.63
Found	59.69	6.6	11.6

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Description:

Selective 5-HT_3 receptor antagonist (K_i = 6.16 nM). Antiemetic; prevents emesis induced by cytotoxic drugs and radiation.

Physical and Chemical Properties:

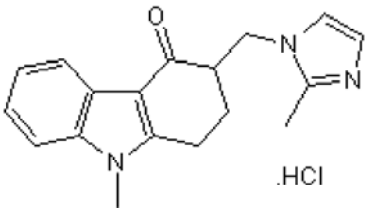
Batch Molecular Formula: $C_{18}H_{19}N_3O.HCl.1¾H_2O$

Batch Molecular Weight: 361.35

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 mM
DMSO to 100 mM
ethanol to 25 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:

Ginawi *et al* (2005) Ondansetron, a selective antagonist, antagonizes methamphetamine-induced anorexia in mice. Pharmacol.Res. ***51*** 255. PMID: 15661576.

Ye *et al* (2001) Ondansetron: a selective 5-HT_3 receptor antagonist and its applications in CNS-related disorders. CNS Drug Rev. ***7*** 199. PMID: 11474424.

Youssefyeh *et al* (1992) Development of high-affinity 5-HT_3 receptor antagonists. 1. Initial structure-activity relationship of novel benzamides. J.Med.Chem. ***35*** 895. PMID: 1312602.