Certificate of Analysis

Print Date: Feb 8th 2022

www.tocris.com

Product Name: Ondansetron hydrochloride

Catalog No.: 2891

Batch No.: 2

CAS Number: IUPAC Name:

a biotechr

TOCR

99614-01-4 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: Batch Molecular Weight: Physical Appearance: Solubility: C₁₈H₁₉N₃O.HCl.1³/₄H₂O 361.35 Off White solid water to 50 mM DMSO to 100 mM ethanol to 25 mM Store at RT

Storage: Batch Molecular Structure:

.HCI

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 100% purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen				
Theoretical	59.83	6.55	11.63		
Found	59.69	6.6	11.6		

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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TOCRIS a biotechne brand

Product Information

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Print Date: Feb 8th 2022

Batch No.: 2

Product Name: Ondansetron hydrochloride

CAS Number: 99614-01-4

IUPAC Name:

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

Description:

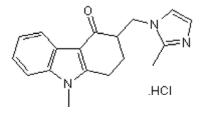
Ondansetron hydrochloride is a selective 5-HT_3 receptor antagonist (K_i = 6.16 nM). Also an inhibitor of human multidrug and toxin extrusion (MATE) transporter 1 (IC₅₀ = <10-160 nM). Ondansetron blocks 5-HT-evoked transient inward currents (IC₅₀ = 0.1 nM) in human recombinant h5-HT_{3A} receptors. In an animal model of Parkinson's disease, Ondansetron reduces both the severity of dyskinesia and psychosis-like behaviors. Antiemetic; prevents emesis induced by cytotoxic drugs and radiation.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{19}N_3O.HCl.1^3/_4H_2O$ 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).

Catalog No.: 2891

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:

Wittwer et al (2013) Discovery of potent, selective multidrug and toxin extrusion transporter 1 (MATE1, SLC47A1) inhibitors through prescription drug profiling and computational modeling. J.Med.Chem. 56 781. PMID: 23241029.

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-HT₃ receptor antagonist and its applications in CNS-related disorders. CNS Drug Rev. **7** 199. PMID: 11474424.

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