

Certificate of Analysis

Product Name: Dolasetron mesylate

Catalog No.: 5629

Batch No.: 1

CAS Number: 115956-13-3

IUPAC Name: 3-Oxo-octahydro-2,6-methano-2H-quinolizin-8-yl 1H-indole-3-carboxylate methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀N₂O₃·CH₃SO₃H·H₂O

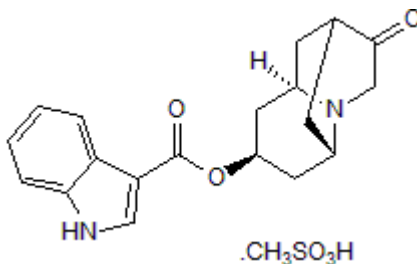
Batch Molecular Weight: 438.5

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store 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	54.78	5.97	6.39
Found	54.92	5.96	6.38

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Description:

Potent and selective 5-HT₃ receptor antagonist (pIC₅₀ = 7.55). Exhibits 200-fold selectivity for 5-HT₃ over 5-HT_{1A}, 5-HT_{1B} and 5-HT₂ receptors, and a range of other GPCRs. Blocks the 5-HT-elicited von Bezold-Jarisch reflex in rats and suppresses cisplatin-induced vomiting in ferrets.

Physical and Chemical Properties:

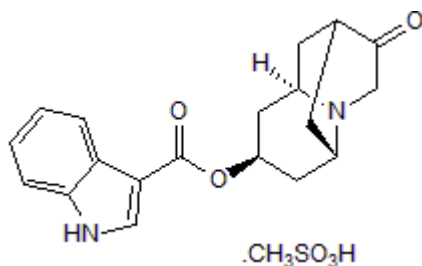
Batch Molecular Formula: C₁₉H₂₀N₂O₃.CH₃SO₃H.H₂O

Batch Molecular Weight: 438.5

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 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:

Miller (1993) Pharmacological properties of dolasetron, a potent and selective antagonist at 5-HT₃ receptors. Drug Dev. Res. **28** 87.

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