

Certificate of Analysis

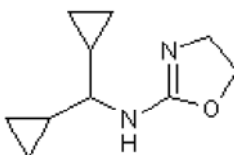
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Product Name: Rilmenidine hemifumarate
CAS Number: 207572-68-7
IUPAC Name: 2-[N-(Dicyclopropylmethyl)amino]oxazoline hemifumarate

Catalog No.: 0790 **Batch No.:** 6
EC Number: 259-021-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₆N₂O·½C₄H₄O₄.
Batch Molecular Weight: 238.29
Physical Appearance: White solid
Solubility: DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



·½C₄H₄O₄

2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.49	7.61	11.76
Found	60.66	7.63	11.73

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

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Description:

Rilmenidine hemifumarate is an I₁-imidazoline binding site selective ligand and α₂-adrenoceptor agonist. Possesses greater I₁ vs α₂ selectivity than the prototypical compound, clonidine. Also thought to enhance autophagy; shown to increase LC3-II levels in PC12 cells.

Physical and Chemical Properties:

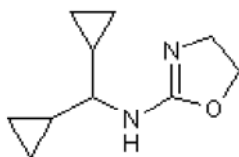
Batch Molecular Formula: C₁₀H₁₆N₂O.½C₄H₄O₄.

Batch Molecular Weight: 238.29

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



½C₄H₄O₄

References:

Williams et al (2008) Novel targets for Huntington's disease in an mTOR-independent autophagy pathway. *Nat.Chem.Biol.* **4** 295. PMID: 18391949.

Mammoto et al (1996) Antiarrhythmic action of rilmenidine on adrenaline-induced arrhythmia via central imidazoline receptors in halothane-anaesthetized dogs. *Br.J.Pharmacol.* **117** 1744. PMID: 8732285.

Bricca et al (1994) Human brain imidazoline receptors: Further characterisation with [³H] clon. *Eur.J.Pharmacol.* **266** 25. PMID: 8137880.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

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