

Certificate of Analysis

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Product Name: Zopiclone

Catalog No.: 1094

Batch No.: 2

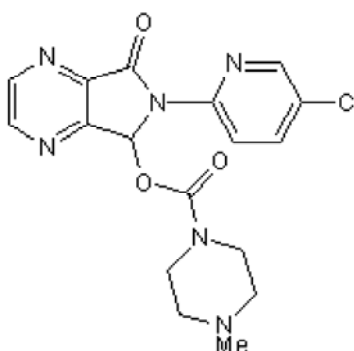
CAS Number: 43200-80-2

EC Number: 256-138-9

IUPAC Name: 4-Methyl-1-piperazinecarboxylic acid 6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b] pyrazin-5-yl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇ClN₆O₃
Batch Molecular Weight: 388.81
Physical Appearance: White solid
Solubility: DMSO to 75 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 175 - 177°C
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	52.51	4.41	21.61
Found	52.1	4.4	21.26

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

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Product Information

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Description:

A non benzodiazepine BZR agonist, with little difference in affinity for the BZ1 and BZ2 subtypes; however its CNS effects differ from those of other BZR ligands and this may be due to interaction with a different subunit.

Physical and Chemical Properties:

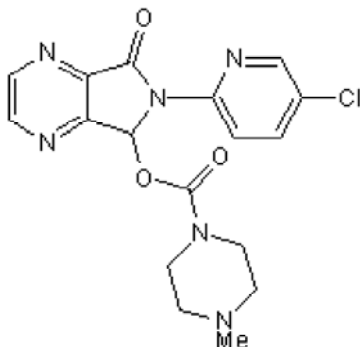
Batch Molecular Formula: C₁₇H₁₇ClN₆O₃

Batch Molecular Weight: 388.81

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Munakata *et al* (1996) Heterogeneous distribution of benzodiazepine receptors among rat neostriatal neurones. *Br.J.Pharmacol.* **118** 820. PMID: 8762113.

Im *et al* (1993) Potentiation of γ-aminobutyric acid induced chloride currents by various benzodiazepine site agonists with the α1γ2, β2γ2 and α1β2γ2 subtypes of cloned γ-aminobutyric acid type A receptors. *Mol.Pharmacol.* **44** 866. PMID: 7901754.

Goa and Heel (1986) Zopiclone. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy as a hypnotic. *Drugs* **32** 48. PMID: 2874974.

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