Zopiclone

Product Number Z 4900
Store at Room Temperature

Product Description
Molecular Formula: C₁₇H₁₇ClN₆O₃
Molecular Weight: 388.8
CAS Number: 43200-80-2
Melting Point: 178 °C
Synonyms: 4-methyl-1-piperazinecarboxylic acid 6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]pyrazin-5-yl ester, 6-(5-chloropyrid-2-yl)-5-(4-nettkouoerazub-1-yl)carbonyloxy-7-oxo-6,7-dihydro-5H-pyrrolo[3,4-b]pyrazine, Imovane

Zopiclone is a cyclopyrrone compound that has been reported to possess hypnotic, muscle relaxant, and anticonvulsant properties analogous to benzodiazepine compounds such as diazepam. Zopiclone is understood to be active via the mediation of aminobutyric acid (GABA) activity in the brain, by binding to the benzodiazepine receptor component of the GABA receptor complex, but at a different site than benzodiazepines.¹²

Zopiclone has been used to study GABA response in cultured mouse neurons.³ A study of sleep disturbance in rats in different environments utilized various short-acting hypnotic compounds, including zopiclone.⁴ An investigation of the stereoselective distribution and stereoconversion of the zopiclone enantiomers in rat plasma and brain tissue has been reported.⁵

An HPLC method for the determination of zopiclone in plasma has been published.⁶ A protocol that combines GC with a nitrogen-phosphorus detector for analysis of zopiclone in plasma has been reported.⁷ A report has described the solid-state separation of the enantiomers of zopiclone dihydrate into a racemic mixture by heat treatment.⁸

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in ethanol (10 mg/ml), yielding a clear, colorless to faint yellow solution.

References
1. The Merck Index, 12th ed., Entry# 10324.


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