

Product Name: Zolpidem

Catalog No.: 0655

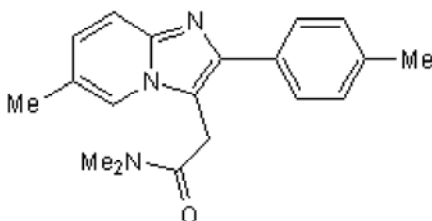
Batch No.: 8

CAS Number: 82626-48-0

IUPAC Name: *N,N,6*-Trimethyl-2-(4-methylphenyl)imidazo[1,2-*a*]pyridine-3-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁N₃O
Batch Molecular Weight: 307.39
Physical Appearance: White solid
Solubility: ethanol to 100 mM
 DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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Description:

Benzodiazepine agonist with high selectivity for α 1-subunit-containing GABA_A receptors (BZ/ ω ₁ site) and very high intrinsic activity. K_i values are 20, 400 and \geq 5000 nM for α 1-, α 2-/ α 3-, and α 5-containing GABA_A receptors respectively. Hypnotic that does not induce physical dependence.

Physical and Chemical Properties:

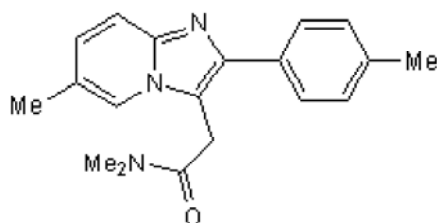
Batch Molecular Formula: C₁₉H₂₁N₃O

Batch Molecular Weight: 307.39

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 50 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:

Soderhielm *et al* (2018) Probing the molecular basis for affinity/potency- and efficacy-based subtype-selectivity exhibited by benzodiazepine-site modulators at GABA_A receptors. *Biochem.Pharmacol.* **158** 339. PMID: 30121248 .

Crestani *et al* (2000) Mechanism of action of the hypnotic zol. *in vivo*. *Br.J.Pharmacol.* **131** 1251. PMID: 11090095.

Perrault *et al* (1992) Lack of tolerance and physical dependence upon repeated treatment with the novel hypnotic zol. *J.Pharmacol.Exp.Ther.* **263** 298. PMID: 1403792.

Arbilla *et al* (1986) High affinity [³H]zolpidem binding in the rat brain: an imidazopyridine with agonist properties at central benzodiazepine receptors. *Eur.J.Pharmacol.* **130** 257. PMID: 2878820.

Depoortere *et al* (1986) Zolpidem, a novel nonbenzodiazepine hypnotic. 1. Neuropharmacological and behavioural effects. *J.Pharmacol.Exp.Ther.* **237** 649. PMID: 2871178.

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