

Certificate of Analysis

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Product Name: CGS 20625

Catalog No.: 2467

Batch No.: 2

CAS Number: 111205-55-1

IUPAC Name: 5,6,7,8,9,10-Hexahydro-2-(4-methoxyphenyl)cyclohepta[*b*]pyrazolo[3,4-*d*]pyridin-3(2*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₉N₃O₂·¼H₂O

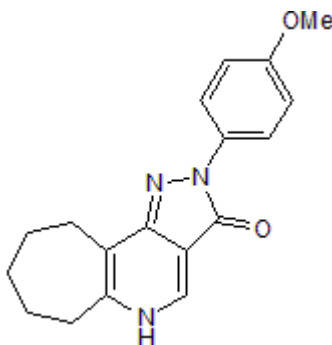
Batch Molecular Weight: 313.86

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Chloroform:Methanol [9:1])

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.88	6.26	13.39
Found	68.74	6.17	13.18

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

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Description:

Selective, partial agonist for the benzodiazepine binding site of the GABA_A receptor. Potently inhibits [3H]-flunitrazepam binding to central benzodiazepine receptors (IC₅₀ = 1.3 nM) and displays weak affinity for peripheral benzodiazepine (IC₅₀ = 0.68 - 2.25 μM) and GABA binding sites (IC₅₀ > 10000 μM). Displays anxiolytic activity in vivo following oral administration. .

Physical and Chemical Properties:

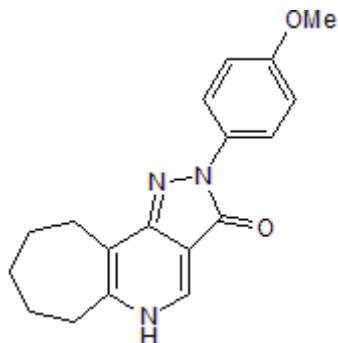
Batch Molecular Formula: C₁₈H₁₉N₃O₂ · ¼ H₂O

Batch Molecular Weight: 313.86

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Bennett (1987) Pharmacology of the pyrazolo-type compounds: agonist, antagonist and inverse agonist actions. *Physiol.Behav.* **41** 241. PMID: 2893398.

Williams et al (1989) CGS 20625, a novel pyrazolopyridine anxiolytic. *J.Pharmacol.Exp.Ther.* **248** 89. PMID: 2563294.

Jarvis et al (1990) CGS 20625, a novel pyrazolopyridine with selective anxiolytic activity. *Prog.Clin.Biol.Res.* **361** 477. PMID: 1981266.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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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