

Certificate of Analysis

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Product Name: Lorazepam

Catalog No.: 3087

Batch No.: 1

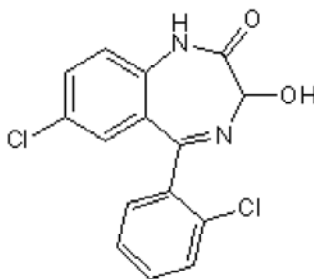
CAS Number: 846-49-1

EC Number: 212-687-6

IUPAC Name: 7-Chloro-5-(2-chlorophenyl)-1,3-dihydro-3-hydroxy-2H-1,4-benzodiazepine-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₅ H ₁₀ Cl ₂ N ₂ O ₂
Batch Molecular Weight:	321.16
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 40 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

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

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Description:

Ligand at the GABA_A receptor benzodiazepine modulatory site. Anxiolytic, anticonvulsant and sedative/hypnotic agent.

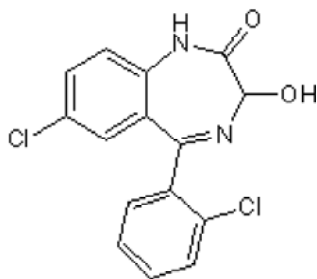
Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₀Cl₂N₂O₂

Batch Molecular Weight: 321.16

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 40 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:

Bonavita et al (2002) Tolerance to the sedative effect of L.pam correlates with a diminution in cortical release and affinity for glutamate. *Neuropharmacol.* **42** 619.

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