

Certificate of Analysis

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Product Name: CGP 37157

Catalog No.: 1114

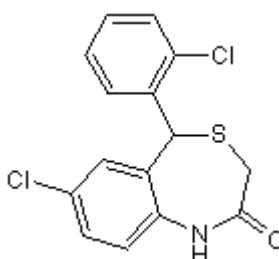
Batch No.: 4

CAS Number: 75450-34-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁Cl₂NOS
Batch Molecular Weight: 324.22
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Dichloromethane)
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.57	3.42	4.32
Found	55.75	3.45	4.28

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

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Description:

Selective antagonist of the mitochondrial Na⁺-Ca²⁺ exchanger (IC₅₀ = 0.4 μM).

Physical and Chemical Properties:

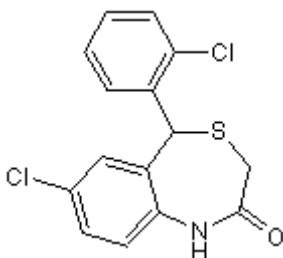
Batch Molecular Formula: C₁₅H₁₁Cl₂NOS

Batch Molecular Weight: 324.22

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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.

References:

Cox et al (1993) Selectivity of inhibition of Na⁺-Ca²⁺ exchange of heart mitochondria by benzothiazepine CGP-37157. *J.Cardiovasc.Pharmacol.* **21** 595. PMID: 7681905.

Cox and Matlib (1993) Modulation of intramitochondrial free Ca²⁺ concentration by antagonists of Na⁺-Ca²⁺ exchange. *TIPS* **14** 408. PMID: 8296399.

White and Reynolds (1997) Mitochondria accumulate Ca²⁺ following intense glutamate stimulation of cultured rat forebrain neurones. *J.Physiol.* **498** 31. PMID: 9023766.

Baron and Thayer (1997) CGP37157 modulates mitochondrial Ca²⁺ homeostasis in cultured rat dorsal root ganglion neurons. *Eur.J.Pharmacol.* **340** 295. PMID: 9537826.

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