

Certificate of Analysis

www.tocris.com

Product Name: Chlormezanone

Catalog No.: 0456

Batch No.: 5

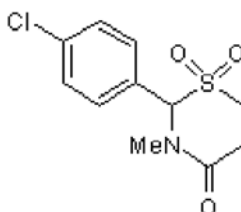
CAS Number: 80-77-3

EC Number: 201-307-4

IUPAC Name: 2-(4-Chlorophenyl)tetrahydro-3-methyl-4*H*-1,3-thiazin-4-one-1,1-dioxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₂ClNO₃S.
Batch Molecular Weight: 273.73
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.27	4.42	5.12
Found	48.27	4.39	5.12

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: Chlormezanone

Catalog No.: 0456

Batch No.: 5

CAS Number: 80-77-3

EC Number: 201-307-4

IUPAC Name: 2-(4-Chlorophenyl)tetrahydro-3-methyl-4*H*-1,3-thiazin-4-one-1,1-dioxide

Description:

Anxiolytic and skeletal muscle relaxant that acts at the benzodiazepine site of GABA_A receptors.

Physical and Chemical Properties:

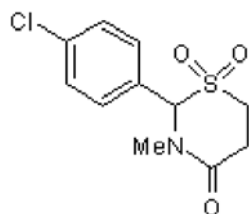
Batch Molecular Formula: C₁₁H₁₂ClNO₃S.

Batch Molecular Weight: 273.73

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

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.

References:

Simiand *et al* (1989) Comparative study in mice of tetrazepam and other centrally active skeletal muscle relaxants. Arch.Int.Pharmacodyn.Ther. **297** 272. PMID: 2567153.

Ervin and Cooper (1988) Use of conditioned taste aversion as a conflict model: effects of anxiolytic drugs. J.Pharmacol.Exp.Ther. **245** 137. PMID: 2896235.

Merck Index **12** 2155.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956