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Certificate of Analysis

Print Date: Mar 23rd 2016

www.tocris.com

Batch No.: 7

Catalog No.: 0964

EC Number: 206-668-1

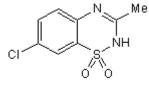
Product Name: Diazoxide CAS Number:

364-98-7 7-Chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1-dioxide

IUPAC Name:

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: **Batch Molecular Structure:** C₈H₇CIN₂O₂S 230.67 Grey solid DMSO to 100 mM Store at RT



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity				
¹ H NMR:	Consistent	Consistent with structure			
Mass Spectrum:	Consistent	Consistent with structure			
Microanalysis:	Carbon Hydrogen Nitrogen				
	Theoretical	41.65	3.06	12.14	
	Found	41.52	2.89	11.94	

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

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Product Information

Storage: Store at RT

DMSO to 100 mM

water bath).

Solubility & Usage Info:

Stability and Solubility Advice:

6 months from date of receipt.

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Product Name: Diazoxide

364-98-7

Catalog No.: 0964 EC Number: 206-668-1 Batch No.: 7

Some solutions can be difficult to obtain and can be encouraged

by rapid stirring, sonication or gentle warming (in a 45-60°C

Information concerning product stability, particularly in solution,

has rarely been reported and in most cases we can only offer a

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

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

general guide. Our standard recommendations are:

should be made up and used on the same day.

IUPAC Name: 7-Chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1-dioxide

Description:

CAS Number:

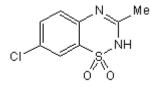
Antihypertensive, activates ATP-dependent K⁺ channels (K_{ir}6). Induces activation of PKC_ɛ, an intermediate in the opening of mitoK_{ATP} channels, results in cardioprotection against hypoxiainduced death. Blocks desensitization of AMPA receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₈H₇CIN₂O₂S Batch Molecular Weight: 230.67 Physical Appearance: Grey solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Merck Index 12 3051.

Trube et al (1986) Opposite effects of tolbutamide and diazoxide on the ATP-dependent K⁺ channel in mouse pancreatic β -cells. Pflugers Arch. 407 493. PMID: 2431383.

Yamada and Rothman (1992) Diazoxide blocks glutamate desensitization and prolongs excitatory postsynaptic currents in rat hippocampal neurons. J.Physiol. 458 409. PMID: 1302270.

Kim et al (2006) Diazoxide acts more as a PKC-ε activator, and indirectly activates the mitochondiral K_{ATP} channel conferring cardioprotection against hypoxic injury. Br.J.Pharmacol. 149 1059. PMID: 17043673.

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