

Certificate of Analysis

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Product Name: ZD 9379

Catalog No.: 3322

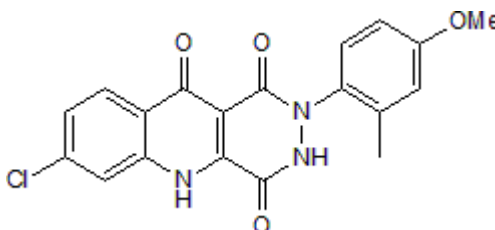
Batch No.: 1

CAS Number: 170142-20-8

IUPAC Name: 7-Chloro-2,3-dihydro-2-(4-methoxy-2-methylphenyl)pyridazino [4,5-*b*] quinoline-1,4,10(5*H*)trione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄ClN₃O₄·½H₂O
Batch Molecular Weight: 392.8
Physical Appearance: Pale yellow solid
Solubility: DMSO to 50 mM
 1eq. NaOH to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.1	3.85	10.7
Found	57.83	3.88	10.61

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

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Description:

NMDA receptor antagonist; acts at glycine site. Neuroprotective; reduces infarct size and frequency of spreading depressions in a rat model of ischemic stroke. Brain penetrant.

Physical and Chemical Properties:

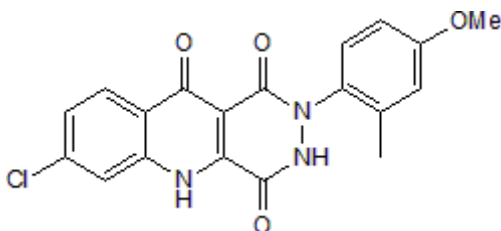
Batch Molecular Formula: C₁₉H₁₄ClN₃O₄·½H₂O

Batch Molecular Weight: 392.8

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

1eq. NaOH to 20 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:

Bare (1993) Pyridazino[4,5-*b*]quinolinediones: a series of novel glycine site NMDA antagonists with potent in vitro and in vivo properties. Abstracts of Papers of the ACS **205** 79. Abstract..

Takano (1997) Glycine site antagonist attenuates infarct size in experimental focal ischemia. Postmortem and diffusion mapping studies. Stroke. **28** 1255. PMID: 9183359.

Tatlisumak (2000) A glycine antagonist ZD9379 reduces number of spreading depressions and infarct size in rats with permanent middle cerebral artery occlusion. Acta.Neurochir.Suppl. **76** 331. PMID: 11450037.

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