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Certificate of Analysis

Print Date: Jan 13th 2016

www.tocris.com

Product Name: Lonidamine

Catalog No.: 1646 EC Number: 256-510-0 Batch No.: 3

CAS Number: IUPAC Name: 50264-69-2 1-[(2,4-Dichlorophenyl)methyl]-1*H*-indazole-3-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: C₁₅H₁₀Cl₂N₂O₂ 321.16 White solid ethanol to 5 mM DMSO to 100 mM





2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: $R_f = 0.7$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33]) Shows 98.1% purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen				
Theoretical	56.1	3.14	8.72		
Found	55.95	3.26	8.68		

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

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Product Information

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IUPAC Name: 1-[(2,4-Dichlorophenyl)methyl]-1H-indazole-3-carboxylic acid

Description:

Anticancer and antispermatogenic agent in vitro and in vivo. Inhibits cellular energy metabolism in some cells via inhibition of mitochondrial hexokinase. Also blocks CFTR CI- channels in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C15H10Cl2N2O2 Batch Molecular Weight: 321.16 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info: ethanol to 5 mM

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:

Lobl et al (1981) Effects of lonidamine (AF 1890) and its analogues on follicle-stimulating hormone, luteinizing hormone, testosterone and rat androgen binding protein concentrations in the rat and rhesus monkey. Chemotherapy 27 61. PMID: 6793318.

De Martino et al (1984) Effects of lonidamine on murine and human tumor cells in vitro. A morphological and biochemical study. Oncology 41 15. PMID: 6717891.

Teiche (1994) Lonidamine: in vitro/in vivo correlations. Eur.J.Cancer 30A 1411. PMID: 7833093.

Gong et al (2002) Mechanism of Ionidamine inhibition of the CFTR chloride channel. Br.J.Pharmacol. 137 928. PMID: 12411425.

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