

Certificate of Analysis

Product Name: KRIBB11

Catalog No.: 5480

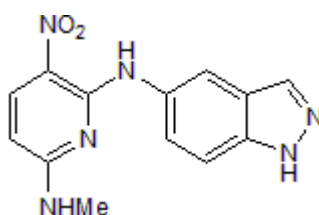
Batch No.: 1

CAS Number: 342639-96-7

IUPAC Name: *N*²-1*H*-Indazol-5-yl-*N*⁶-methyl-3-nitro-2,6-pyridinediamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₂N₆O₂
Batch Molecular Weight: 284.27
Physical Appearance: Brown solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.93	4.25	29.56
Found	54.96	4.21	29.87

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

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Description:

Heat shock factor (HSF) inhibitor (IC₅₀ = 1.2 μM). Increases apoptosis in cancer cells treated with the HSP90 inhibitors Geldanamycin (Cat. No. 1368) and 17-AAG (Cat. No. 1515). Blocks downstream induction of HSP27 and HSP70. Inhibits tumor growth in vivo.

Physical and Chemical Properties:

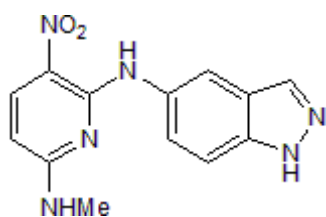
Batch Molecular Formula: C₁₃H₁₂N₆O₂

Batch Molecular Weight: 284.27

Physical Appearance: Brown solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Yoon *et al* (2011) KRIBB11 inhibits HSP70 synthesis through inhibition of heat shock factor 1 function by impairing the recruitment of positive transcription elongation factor b to the hsp70 promoter. *J.Biol.Chem.* **286** 1737. PMID: 21078672.

Samarasinghe *et al* (2014) Heat shock factor 1 confers resistance to Hsp90 inhibitors through p62/SQSTM1 expression and promotion of autophagic flux. *Biochem. Pharmacol.* **87** 445. PMID: 24291777.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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.

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