

Certificate of Analysis

Print Date: Nov 21st 2018

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Product Name: NSC 693868 Catalog No.: 1937 Batch No.: 2

CAS Number: 40254-90-8

IUPAC Name: 1*H*-Pyrazolo[3,4-*b*]quinoxalin-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_7N_5$ Batch Molecular Weight:185.19

Physical Appearance:Red crystalline solidSolubility:DMSO to 100 mMStorage:Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.61$ (Dichloromethane:Methanol [9:1])

Melting Point:Between 272 - 274°CHPLC:Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 58.37 3.81 37.82 Found 58.51 3.82 37.68

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Product Information

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Description:

Cyclin-dependent kinase (cdk) inhibitor (reported IC_{50} values are 0.4, 0.6, 4.4 - 5.6 μ M for cdk5, cdk1 and cdk2, respectively). Also inhibits GSK-3 (IC_{50} = 1 $_{u}$ M).

Physical and Chemical Properties:

Batch Molecular Formula: C₉H₇N₅ Batch Molecular Weight: 185.19

Physical Appearance: Red crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°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.

References:

Jorda et al (2018) How selective are pharmacological inhibitors of cell-cycle-regulating cyclin-dependent kinases? J.Med.Chem. **61** 9105. PMID: 30234987.

Ortega *et al* (2002) Pyrazolo[3,4-*b*]quinoxalines. A new class of cyclin-dependent kinases inhibitors. Bioorg.Med.Chem.Lett. *10* 2177. PMID: 11983514.

Monge et al (1995) 3-Amino-2-quinoxalinecarbonitrile. New fused quinoxalines with potential cytotoxic activity. J.Heterocycl.Chem. 31 1135.