

Certificate of Analysis

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Product Name: SMIFH2

Catalog No.: 4401

Batch No.: 1

CAS Number: 340316-62-3

IUPAC Name: 1-(3-Bromophenyl)-5-(2-furanylmethylene)dihydro-2-thioxo-4,6(1*H*,5*H*)-pyrimidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₉BrN₂O₃S

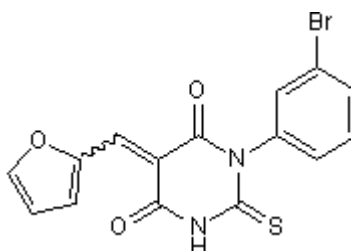
Batch Molecular Weight: 377.21

Physical Appearance: Green solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	47.76	2.4	7.43
Found	48.16	2.4	7.57

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

Product Information

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Description:

Inhibitor of formin homology 2 (FH2) domains. Prevents formin-mediated actin nucleation and barbed end elongation. Disrupts formin-dependent actin cytoskeletal structures in fission yeast and mammalian NIH 3T3 fibroblasts.

Physical and Chemical Properties:

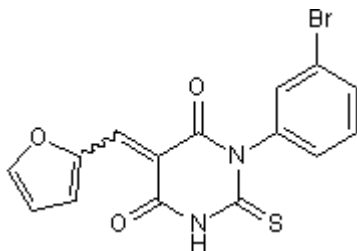
Batch Molecular Formula: C₁₅H₉BrN₂O₃S

Batch Molecular Weight: 377.21

Physical Appearance: Green 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:

Rizvi et al (2009) Identification and characterization of a small molecule inhibitor of formin-mediated actin assembly. *Chem.Biol.* **16** 1158. PMID: 19942139.

Poincloux et al (2011) Contractility of the cell rear drives invasion of breast tumor cells in 3D Matrigel. *Proc.Natl.Acad.Sci.USA* **108** 1943. PMID: 21245302.

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