

Certificate of Analysis

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Product Name: PBIT

Catalog No.: 5930

Batch No.: 1

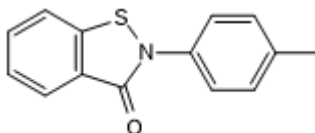
CAS Number: 2514-30-9

IUPAC Name: 2-(4-Methylphenyl)-1,2-benzisothiazol-3(2H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₁NOS
Batch Molecular Weight: 241.31
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.68	4.59	5.8
Found	69.77	4.74	5.8

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

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Description:

JARID1 (Jumonji AT-Rich Interactive Domain 1) inhibitor (IC₅₀ values are 3, 4.9 and 6 μM for JARID1B, 1A and 1C, respectively). Selective for JARID1 over UTX and JMJD3. Increases levels of methylated H3K4 in JARIDB1-transfected HeLa cells and MCF7 cells. Inhibits proliferation of breast cancer cell lines expressing high levels of JARIDB1.

Physical and Chemical Properties:

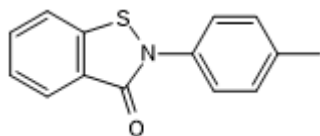
Batch Molecular Formula: C₁₄H₁₁NOS

Batch Molecular Weight: 241.31

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Sayegh et al (2013) Identification of small molecule inhibitors of Jumonji AT-rich interactive domain 1B (JARID1B) histone demethylase by a sensitive high throughput screen. *J.Biol.Chem.* **288** 9408. PMID: 23408432.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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