

Product Name: BI 6015

Catalog No.: 4641

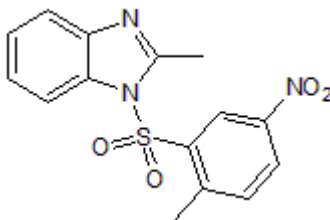
Batch No.: 1

CAS Number: 93987-29-2

IUPAC Name: 2-Methyl-1-[(2-methyl-5-nitrophenyl)sulfonyl]-1*H*-benzimidazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃N₃O₄S
Batch Molecular Weight: 331.35
Physical Appearance: White solid
Solubility: DMSO to 20 mM
 ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.37	3.95	12.68
Found	54.22	4	12.65

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

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IUPAC Name: 2-Methyl-1-[(2-methyl-5-nitrophenyl)sulfonyl]-1H-benzimidazole

Description:

Hepatocyte nuclear factor 4 α (HNF4 α) antagonist. Represses expression of known HNF4 α target genes. Decreases HNF4 α DNA binding. Exhibits cytotoxic activity in a range of tumor cell lines, including human hepatocellular carcinoma.

Physical and Chemical Properties:

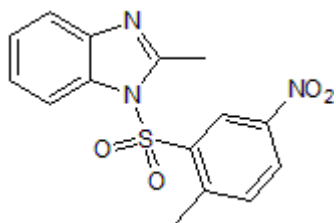
Batch Molecular Formula: C₁₅H₁₃N₃O₄S

Batch Molecular Weight: 331.35

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 5 mM with gentle warming

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:

Kiselyuk et al (2012) HNF4 α antagonists discovered by a high-throughput screen for modulators of the human insulin promoter. *Chem.Biol.* **19** 806. PMID: 22840769.

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