



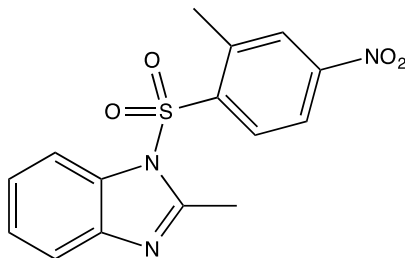
Catalog # 10-1402

BI-6015

CAS# 93987-29-2

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

Lot # X106124



Hepatocyte nuclear factor 4 α (HNF4 α) antagonist. HNF4 α is a central regulator of gene expression in cell types that play a central role in metabolic homeostasis. ¹ BI-6015 binds to HNF4 α with high affinity and modulates the expression of known target genes. It was shown to be selectively cytotoxic to cancer cell lines *in vitro* and *in vivo* however *in vivo* potency was limited by suboptimal pharmacokinetics. ² Represents the first small molecule tool for pharmacologic modulation of HNF4 α activity. ² Cell permeable.

- 1) Wang *et al.* (2000), *Hepatocyte Nuclear Factor 4 α Regulates the Expression of Pancreatic β -Cell Genes Implicated in Glucose Metabolism and Nutrient-induced Insulin Secretion*; J.Biol.Chem. **275** 35953
- 2) Kiselyuk *et al.* (2012), *HNF4 α antagonists discovered by a high-throughput screen for modulators of the human insulin promotor*; Chem.Biol. **19** 806

PHYSICAL DATA

Molecular Weight:	331.35
Molecular Formula:	C ₁₅ H ₁₃ N ₃ O ₄ S
Purity:	>98% by TLC
	NMR: Conforms
Solubility:	DMSO (25 mg/mL with warming); ethanol (10 mg/mL with warming)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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