

Product Data Sheet

Product Name: BI 6015
Cat. No.: GC13231

Chemical Properties

Cas. No. 93987-29-2

Chemical Name 2-methyl-1-((2-methyl-5-nitrophenyl)sulfonyl)-1H-benzo[d]imidazole

SMILES O=S(N1C2=CC=CC=C2N=C1C)(C3=CC([N+](O-)=O)=CC=C3C)=O

Formula $C_{15}H_{13}N_3O_4S$ M.Wt 331.35

Solubility DMF: 16 mg/ml, DMSO: 14 mg/ml, DMSO:PBS (pH 7.2) (1:10): 0.09 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

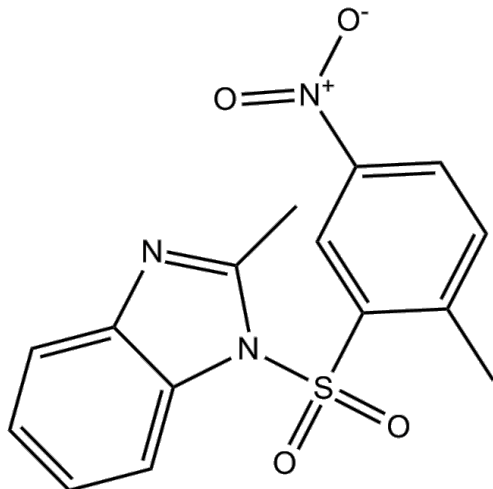
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

BI 6015 is an antagonist of hepatocyte nuclear factor 4 α [1].

Hepatocyte nuclear factor 4 α (HNF4 α) is a nuclear receptor and regulates gene expression in enterocytes, hepatocytes and pancreatic β cells [1].

BI 6015 is a HNF4 α antagonist. BI6015 inhibited the insulin promoter. In T6PNE cells, BI6015 reduced the expression of endogenous insulin by 50-fold. In MIN6 and HepG2 cells, BI6015 inhibited the expression of HNF4 α . Also, BI6015 changed HNF4 α protease sensitivity [1]. In T6PNE cells, BI 6015 reduced the levels of longer chain acylcarnitines (C18, C18:1, C16, and C14) and increased acetylcarnitine, which suggested that BI 6015 increased fatty acid oxidation. In the human hepatoma cell line Hep3B, BI 6015 exhibited cytotoxic activity [1].

In mice, BI6015 (30 mg/kg) induced a loss of HNF4 α protein in the liver, but not in the kidney and intestine. Also, BI6015 caused fat accumulation and steatosis and vesicular changes in a dose-dependent way [1].

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[1]. Kiselyuk A, Lee SH, Farber-Katz S, et al. HNF4a Antagonists Discovered by a High-Throughput Screen for Modulators of the Human Insulin Promoter. Chem Biol, 2012, 19(7): 806-818.

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