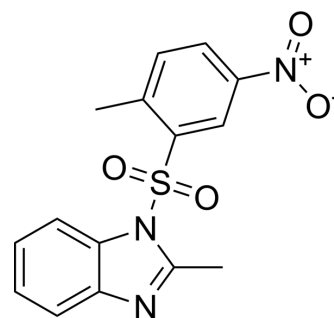


## BI-6015

<b>Cat. No.:</b>	HY-108469		
<b>CAS No.:</b>	93987-29-2		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	331.35		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (150.90 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.0180 mL	15.0898 mL	30.1796 mL
		5 mM	0.6036 mL	3.0180 mL	6.0359 mL
10 mM		0.3018 mL	1.5090 mL	3.0180 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.54 mM); Clear solution				

## BIOLOGICAL ACTIVITY

<b>Description</b>	BI-6015 is a hepatocyte nuclear factor 4α (HNF4α) antagonist that can inhibit the expression of known HNF4α target genes. BI6015 represses insulin promoter activity through HNF4α antagonism. BI-6015 can be used for the research of cancer and diabetes <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	hepatocyte nuclear factor 4α (HNF4α) <sup>[1]</sup>
<b>In Vitro</b>	BI-6015 (1.25-20 μM; 24-72 h) is cytotoxic to human hepatocellular carcinoma (HCC) <sup>[1]</sup> . ?BI-6015 (2.5-10 μM; 5-48 h) inhibits HNF4α gene expression in HepG2 cells <sup>[1]</sup> . ?BI-6015 (5 μM; 3 d) induces hepatic steatosis in primary murine hepatocytes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>

	Cell Line:	Hep3B-Luc cells and primary hepatocytes
	Concentration:	1.25, 2.5, 5, 10, 20 $\mu$ M
	Incubation Time:	24, 48, 72 hours
	Result:	Was markedly toxic to Hep3B cells but spared primary hepatocytes.
<b>In Vivo</b>	<p>BI-6015 (10-30 mg/kg; i.p. once daily for 5 days) induces loss of HNF4<math>\alpha</math> expression and hepatic steatosis in mice<sup>[1]</sup>.  ?BI-6015 (10-30 mg/kg; i.p. daily or every other day for 20-57 days) induces apoptosis in a human hepatocellular carcinoma mouse model<sup>[1]</sup>.  MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

## CUSTOMER VALIDATION

- bioRxiv. 2023 Feb 14.
- Research Square Print. December 19th, 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Kiselyuk A, et, al. HNF4 $\alpha$  antagonists discovered by a high-throughput screen for modulators of the human insulin promoter. Chem Biol. 2012 Jul 27;19(7):806-18.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA