

Product Name: MeBIO

Catalog No.: 3873

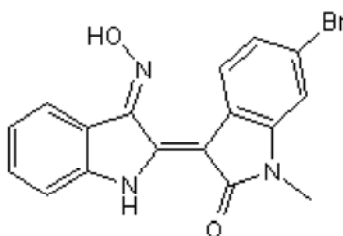
Batch No.: 1

CAS Number: 667463-95-8

IUPAC Name: (2'Z,3'E)-6-Bromo-1-methylindirubin-3'-oxime

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂BrN₃O₂·¼H₂O
Batch Molecular Weight: 374.7
Physical Appearance: red-brown solid
Solubility: DMSO to 10 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

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
Carbon	54.49	54.59	
Hydrogen	3.36	3.37	
Nitrogen	11.21	11.21	

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

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IUPAC Name: (2'Z,3'E)-6-Bromo-1-methylindirubin-3'-oxime

Description:

Control analog of 6-bromoindirubin-3'-oxime (BIO). Displays minimal activity against CDK1/Cyclin B, GSK-3 α/β , and CDK5/p25 (IC₅₀ values are 92.0, 44-100 and >100 μ M respectively). Aryl hydrocarbon receptor (AhR) agonist; causes redistribution of AhR to the nucleus. Active Analog also available.

Physical and Chemical Properties:

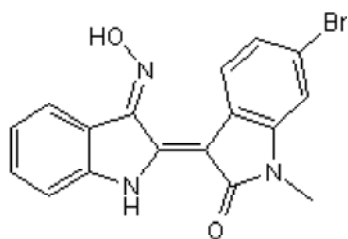
Batch Molecular Formula: C₁₇H₁₂BrN₃O₂. $\frac{1}{4}$ H₂O

Batch Molecular Weight: 374.7

Physical Appearance: red-brown solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Knockaert et al (2004) Independent actions on cyclin-dependent kinases and aryl hydrocarbon receptor mediate the antiproliferative effects of indirubins. *Oncogene* **23** 4400. PMID: 15077192.

Polychronopoulos et al (2004) Structural basis for the synthesis of indirubins as potent and selective inhibitors of glycogen synthase kinase-3 and cyclin-dependent kinases. *J.Med.Chem.* **47** 935. PMID: 14761195.

Meijer et al (2003) GSK-3-selective inhibitors derived from tyrian purple indirubins. *Chem.Biol.* **10** 1255. PMID: 14700633.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 10 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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