

Product Name: BIX 02189

Catalog No.: 4842

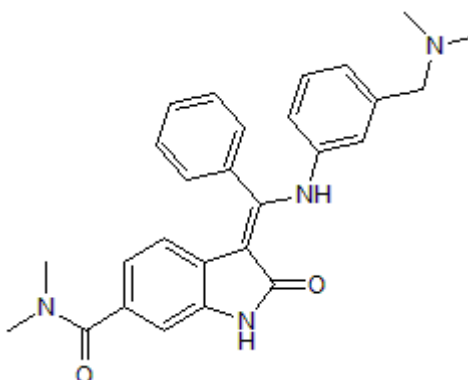
Batch No.: 1

CAS Number: 1265916-41-3

IUPAC Name: (3Z)-3-[[[3-[(Dimethylamino)methyl]phenyl]amino]phenylmethylene]-2,3-dihydro-*N,N*-dimethyl-2-oxo-1*H*-indole-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₈N₄O₂
Batch Molecular Weight: 440.54
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.61	6.41	12.72
Found	73.45	6.48	12.61

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

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Description:

Selective MEK5 and ERK5 inhibitor (IC₅₀ values are 1.5 and 59 nM respectively). Inhibits sorbitol-induced ERK5 phosphorylation in HeLa cells. Selective for MEK5 and ERK5 over MEK1/2, ERK1/2 and a panel of 87 kinases. Induces apoptosis in acute myeloid leukemia tumor cells.

Physical and Chemical Properties:

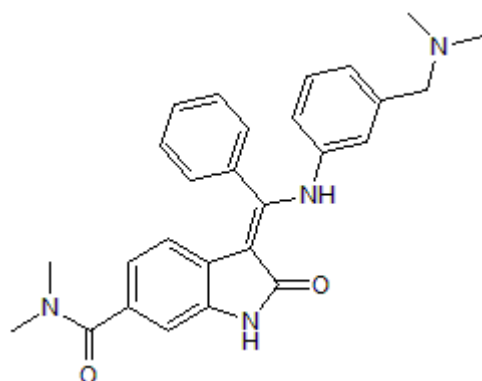
Batch Molecular Formula: C₂₇H₂₈N₄O₂

Batch Molecular Weight: 440.54

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
1eq. HCl to 100 mM
ethanol to 100 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.

References:

Tatake *et al* (2008) Identification of pharmacological inhibitors of the MEK5/ERK5 pathway. *Biochem.Biophys.Res.Comm.* **377** 120. PMID: 18834865.

Kimura *et al* (2010) Targeted deletion of the extracellular signal-regulated protein kinase 5 attenuates hypertrophic response and promotes pressure overload-induced apoptosis in the heart. *Circ.Res.* **106** 961. PMID: 20075332.

Lopez-Royuela *et al* (2014) Extracellular-signal-regulated kinase 5 modulates the antioxidant response by transcriptionally controlling Sirtuin 1 expression in leukemic cells. *Int.J.Biochem.Cell Biol.* **53** 253. PMID: 24880091.

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