

**Product Name:** BIX 02189

**Catalog No.:** 4842

**Batch No.:** 2

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:** C<sub>27</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub> · 1½H<sub>2</sub>O

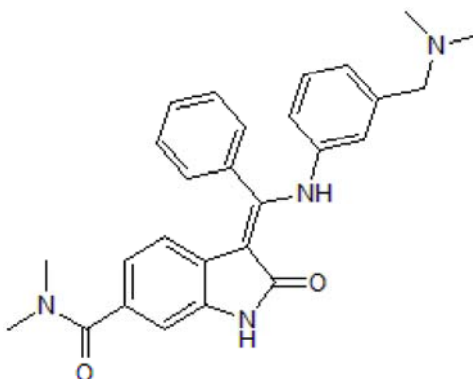
**Batch Molecular Weight:** 467.56

**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**

**HPLC:** Shows 98% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.36	6.68	11.98
Found	69.47	6.39	11.87

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

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**Description:**

Selective MEK5 and ERK5 inhibitor (IC<sub>50</sub> 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:**

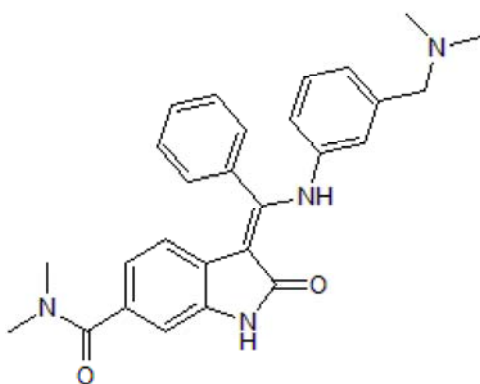
Batch Molecular Formula: C<sub>27</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub> · 1½H<sub>2</sub>O

Batch Molecular Weight: 467.56

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:**

**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.

**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.

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

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