

**Product Name:** JK 184

**Catalog No.:** 3341

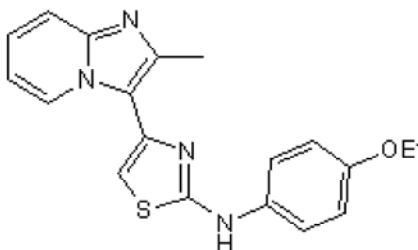
**Batch No.:** 1

CAS Number: 315703-52-7

IUPAC Name: *N*-(4-Ethoxyphenyl)-4-(2-methylimidazo[1,2-*a*]pyridin-3-yl)-2-thiazolamine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>OS  
**Batch Molecular Weight:** 350.44  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
ethanol to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Melting Point:** At 192°C  
**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.12	5.18	15.99
Found	65.24	5.22	15.91

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

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**Description:**

Potent downstream hedgehog (Hh) signaling inhibitor that prevents Gli-dependent transcriptional activity (IC<sub>50</sub> = 30 nM). Exhibits antiproliferative activity in a range of cancer cell lines (GI<sub>50</sub> = 3 - 21 nM) and in human xenografts in vivo. Inhibits alcohol dehydrogenase 7 (Adh7) (IC<sub>50</sub> = 210 nM) and acts as a microtubule depolymerizing agent in vitro.

**Physical and Chemical Properties:**

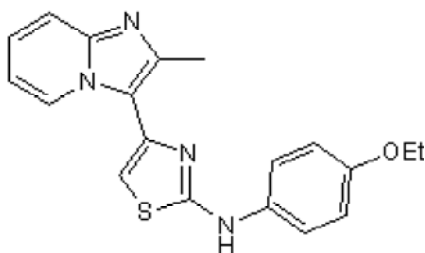
Batch Molecular Formula: C<sub>19</sub>H<sub>18</sub>N<sub>4</sub>OS

Batch Molecular Weight: 350.44

Physical Appearance: Beige solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Cupido et al** (2009) The imidazopyridine derivative JK184 reveals dual roles for microtubules in hedgehog signaling. *Angew.Chem.Int.Ed.Engl.* **48** 2321. PMID: 19222062.

**Lee et al** (2007) A small-molecule antagonist of the hedgehog signaling pathway. *Chembiochem.* **8** 1916. PMID: 17886323.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 25 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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