

**Product Name:** CCT 137690

**Catalog No.:** 4291

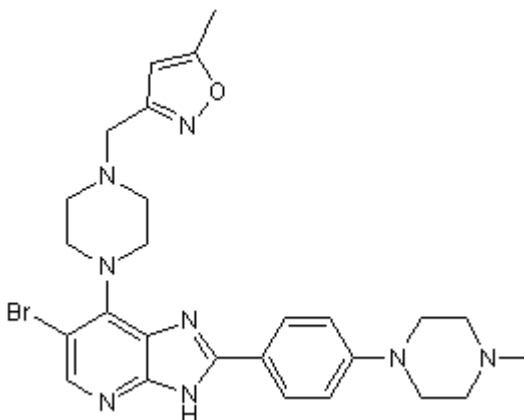
**Batch No.:** 2

CAS Number: 1095382-05-0

IUPAC Name: 6-Bromo-7-[4-[(5-methyl-3-isoxazolyl)methyl]-1-piperazinyl]-2-[4-(4-methyl-1-piperazinyl)phenyl]-3*H*-imidazo[4,5-*b*]pyridine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>31</sub>BrN<sub>8</sub>O  
**Batch Molecular Weight:** 551.48  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.19 (Chloroform:Methanol:Ammonia soln. [9:1:0.1])  
**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.63	5.67	20.32
Found	56.5	5.68	20.24

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

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**Description:**

Potent inhibitor of Aurora kinases (IC<sub>50</sub> values are 0.015, 0.019 and 0.025 μM at Aurora A, Aurora C and Aurora B respectively). Displays antiproliferative activity in a range of human tumor cell lines. Orally bioavailable.

**Physical and Chemical Properties:**

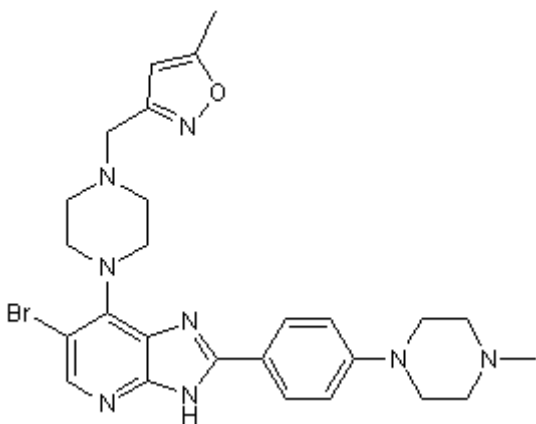
Batch Molecular Formula: C<sub>26</sub>H<sub>31</sub>BrN<sub>8</sub>O

Batch Molecular Weight: 551.48

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO 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:**

**Bavetsias et al** (2010) Imidazo[4,5-*b*]pyridine derivatives as inhibitors of Aurora kinases: lead optimization studies toward the identification of an orally bioavailable preclinical development candidate. *J.Med.Chem.* **53** 5213. PMID: 20565112.

**Faisal et al** (2011) The Aurora kinase inhibitor CCT137690 downregulates MYCN and sensitizes MYCN-amplified neuroblastoma *in vivo*. *Mol.Cancer Ther.* **10** 2115. PMID: 21885865.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956