

**Product Name:** Mps BAY 2a

**Catalog No.:** 5562

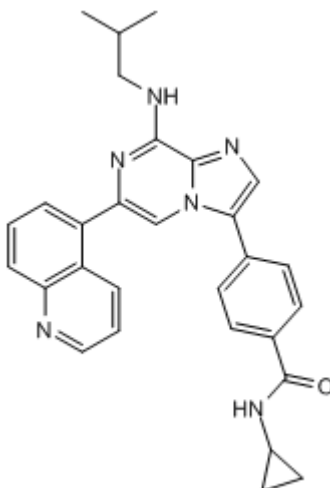
**Batch No.:** 1

CAS Number: 1382477-96-4

IUPAC Name: *N*-Cyclopropyl-4-[8-[(2-methylpropyl)amino]-6-(5-quinolinyl)imidazo[1,2-*a*]pyrazin-3-yl]benzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>29</sub>H<sub>28</sub>N<sub>6</sub>O  
**Batch Molecular Weight:** 476.57  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.39 (5% (7N NH<sub>3</sub> in MeOH) in DCM)  
**HPLC:** Shows >99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.09	5.92	17.63
Found	73.49	5.91	17.82

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

**Product Name:** Mps BAY 2a

**Catalog No.:** 5562

**Batch No.:** 1

CAS Number: 1382477-96-4

IUPAC Name: *N*-Cyclopropyl-4-[8-[(2-methylpropyl)amino]-6-(5-quinolinyl)imidazo[1,2-*a*]pyrazin-3-yl]benzamide

**Description:**

Potent and selective Mps1 inhibitor ( $IC_{50}$  = 1 nM for human enzyme). Selective for Mps1 over a panel of 220 kinases. Differentially inhibits human colon carcinoma cell proliferation. Blocks cell cycle progression by preventing spindle assembly checkpoint activation. Induces apoptosis.

**Physical and Chemical Properties:**

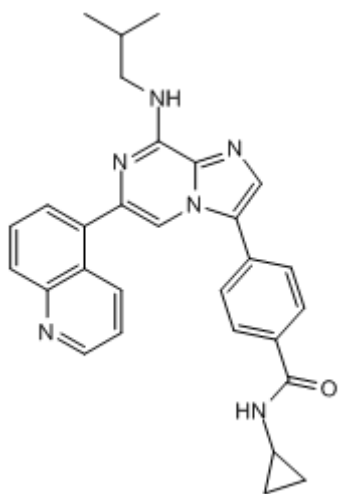
Batch Molecular Formula:  $C_{29}H_{28}N_6O$

Batch Molecular Weight: 476.57

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO 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:**

Jemaà *et al* (2013) Characterization of novel MPS1 inhibitors with preclinical anticancer activity. *Cell Death Differ.* **20** 1532. PMID: 23933817.

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

**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