

**Product Name:** A 196

**Catalog No.:** 6167

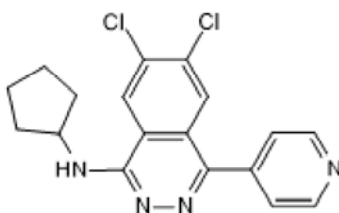
**Batch No.:** 1

CAS Number: 1982372-88-2

IUPAC Name: 6,7-Dichloro-*N*-cyclopentyl-4-(4-pyridinyl)-1-phthalazinamine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>16</sub>Cl<sub>2</sub>N<sub>4</sub>  
**Batch Molecular Weight:** 359.25  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.53 (5% MeOH in DCM)  
**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.18	4.49	15.6
Found	59.89	4.5	15.54

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

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**Description:**

Potent and selective SUV420H1/H2 inhibitor (IC<sub>50</sub> values are 25 and 144 nM respectively). Exhibits 100-fold selectivity over other histone methyltransferases and non-epigenetic targets. Inhibits the di- and tri-methylation of H4K20me in multiple cell lines (IC<sub>50</sub> < 1 μM). To request the negative control for A 196, please fill out the SGC 2043 request form on the SGC website.

**Physical and Chemical Properties:**

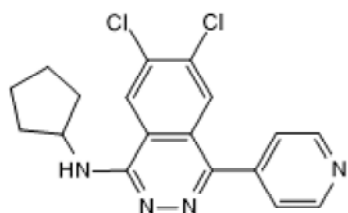
Batch Molecular Formula: C<sub>18</sub>H<sub>16</sub>Cl<sub>2</sub>N<sub>4</sub>

Batch Molecular Weight: 359.25

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Bromberg et al** (2017) The SUV4-20 inhibitor A-196 verifies a role for epigenetics in genomic integrity. *Nat.Chem.Biol.* **13** 317. PMID: 28114273.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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.

**Licensing Information:**

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the A-196 probe summary on the SGC website.

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