

**Product Name:** SGC 707

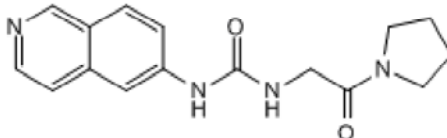
**Catalog No.:** 5367

**Batch No.:** 1

**IUPAC Name:** 1-(Isoquinolin-6-yl)-3-[2-oxo-2-(pyrrolidin-1-yl)ethyl] urea

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 298.34  
**Physical Appearance:** Off White solid  
**Solubility:** 1eq. HCl to 100 mM  
 DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.37 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.41	6.08	18.78
Found	64.19	6.13	18.65

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

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**Description:**

Potent allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3) (IC<sub>50</sub> = 31 nM). Inhibits PRMT3-mediated methyltransferase activity in vitro. Displays >100-fold selectivity against 31 other methyltransferases and 250 other non-epigenetic targets. Decreases H4R3me2a levels in HEK293 cells in vitro. Negative control also available.

**Physical and Chemical Properties:**

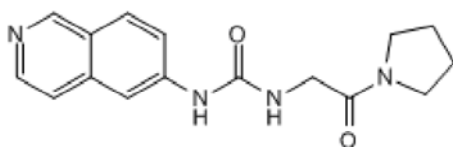
Batch Molecular Formula: C<sub>16</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 298.34

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

1eq. HCl to 100 mM

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.

**Licensing Information:**

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC 707 probe summary on the SGC website.

**References:**

**Scheer *et al*** (2019) A chemical biology toolbox to study protein methyltransferases and epigenetic signaling. *Nat.Commun.* **10** 19. PMID: 30604761.

**Kaniskan *et al*** (2015) A potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). *Angew.Chem.Int.Ed.Engl* **54** 5166. PMID: 25728001.

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