

Certificate of Analysis

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Product Name: SGC 707

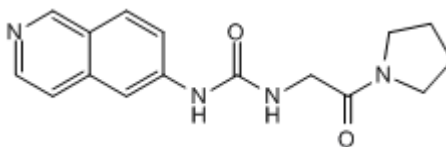
Catalog No.: 5367

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: C₁₆H₁₈N₄O₂
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_f = 0.37 (Dichloromethane:Methanol [9:1])
HPLC: Shows >98.6% purity
¹H 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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IUPAC Name: 1-(Isoquinolin-6-yl)-3-[2-oxo-2-(pyrrolidin-1-yl)ethyl] urea

Description:

Potent allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3) (IC_{50} = 31 nM). Inhibits PRMT3-mediated methyltransferase activity in vitro. Displays >100-fold selectivity against 31 other methyltransferases and 250 other non-epigenetic targets.

Physical and Chemical Properties:

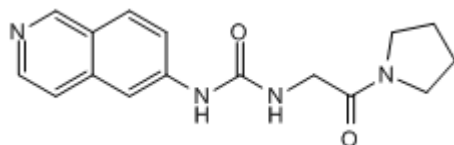
Batch Molecular Formula: $C_{16}H_{18}N_4O_2$

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.

References:

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

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