

Product Name: UNC 0638

Catalog No.: 4343

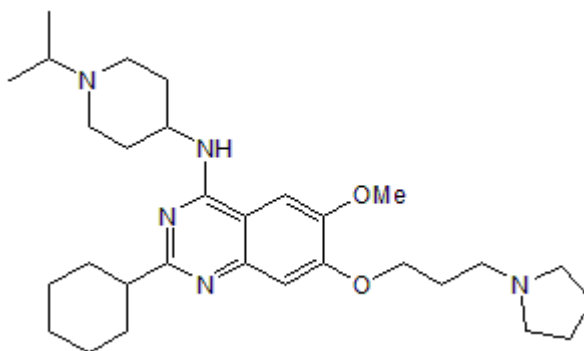
Batch No.: 1

CAS Number: 1255517-77-1

IUPAC Name: 2-Cyclohexyl-6-methoxy-*N*-[1-(1-methylethyl)-4-piperidinyl]-7-[3-(1-pyrrolidinyl)propoxy]-4-quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{47}N_5O_2 \cdot \frac{3}{4}H_2O$
Batch Molecular Weight: 523.24
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
 1eq. HCl to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.3$ (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.86	9.34	13.38
Found	68.83	9.26	13.45

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

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Description:

Selective inhibitor of G9a and GLP histone lysine methyltransferases (IC₅₀ values are < 15 nM and 19 nM for G9a and GLP respectively, and > 10000 nM for a range of other histone methyltransferases). Potently inhibits dimethylation of H3K9 in MCF-7 cells (IC₅₀ = 70 nM). Cell permeable.

Physical and Chemical Properties:

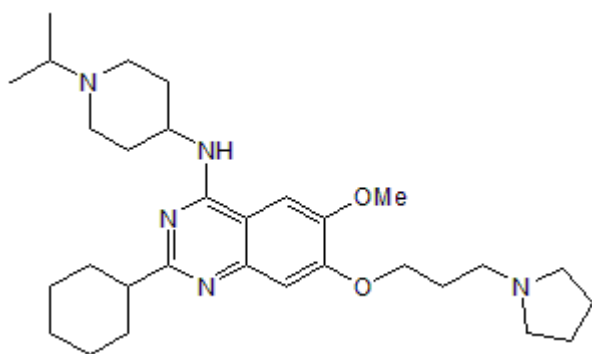
Batch Molecular Formula: C₃₀H₄₇N₅O₂·¾H₂O

Batch Molecular Weight: 523.24

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

1eq. HCl 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:

Vedadi et al (2011) A chemical probe selectively inhibits G9a and GLP methyltransferase activity in cells. *Nat.Chem.Biol.* **7** 566. PMID: 21743462.

Liu et al (2011) Optimization of cellular activity of G9a inhibitors 7-aminoalkoxy-quinazolines. *J.Med.Chem.* **54** 6139. PMID: 21780790.

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