

**Product Name:** UNC 0638

**Catalog No.:** 4343

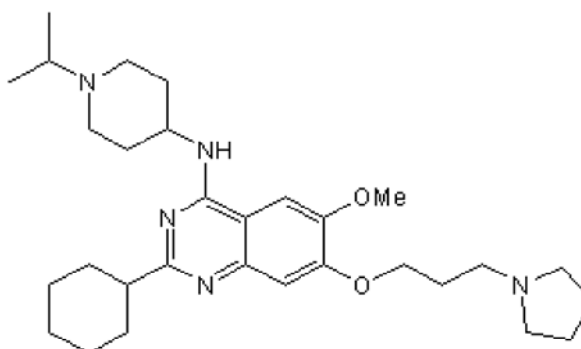
**Batch No.:** 2

CAS Number: 1255580-76-7

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<sub>30</sub>H<sub>47</sub>N<sub>5</sub>O<sub>2</sub>·½H<sub>2</sub>O  
**Batch Molecular Weight:** 509.73  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
 3eq. HCl to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.46	9.33	13.5
Found	69.61	9.26	13.44

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

**Product Name:** UNC 0638

**Catalog No.:** 4343

**Batch No.:** 2

CAS Number: 1255580-76-7

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

**Description:**

Selective inhibitor of G9a and GLP histone lysine methyltransferases (IC<sub>50</sub> 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 (IC<sub>50</sub> = 70 nM). Restores metabolic and antiviral function in exhausted CD8<sup>+</sup> T cells from patients with chronic HCV infection. Cell permeable.

**Physical and Chemical Properties:**

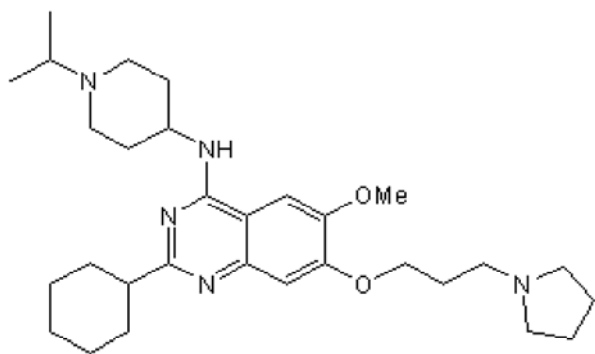
Batch Molecular Formula: C<sub>30</sub>H<sub>47</sub>N<sub>5</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 509.73

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Barili et al** (2020) Targeting p53 and histone methyltransferases restores exhausted CD8<sup>+</sup> T cells in HCV infection. *Nat.Commun.* **11** 604. PMID: 32001678.

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

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

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 mM  
3eq. 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.

**Licensing Information:**

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the UNC 0638 probe summary on the SGC website.

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