

Certificate of Analysis

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Product Name: UNC 0642 Catalog No.: 5132 Batch No.: 1

CAS Number: 1481677-78-4

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

quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{29}H_{44}F_2N_6O_2$. $^{1/2}H_2O$

Batch Molecular Weight: 555.71 **Physical Appearance:** White solid

Solubility:DMSO to 100 mM
1eq. HCl to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.4$ (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows >99.4% purity
 ¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 62.68 8.16 15.12 Found 62.63 8.07 15.16

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







Product Information

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Description:

Potent and selective G9a and GLP histone lysine methyltransferase inhibitor (IC $_{50}$ < 2.5 nM). Exhibits >2,000-fold selectivity for G9a and GLP over PRC2-EZH2 and >20,000-fold selectivity over other methyltransferases. Reduces H3K9 dimethylation levels in MDA-MB-231 cells (IC $_{50}$ = 110 nM). Displays modest brain penetration in vivo.

Physical and Chemical Properties:

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Batch Molecular Weight: 555.71 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM 1eq. HCl to 50 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:

Liu et al (2013) Discovery of an in vivo chemical probe of the lysine methyltransferases G9a and GLP. J.Med.Chem. 56 8931. PMID: 24102134.

