OCR I a biotechne

Print Date: Jun 9th 2022

Certificate of Analysis

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UNC 0224 Product Name:

Catalog No.: 3861 Batch No.: 2

CAS Number: 1197196-48-7

IUPAC Name:

7-[3-(Dimethylamino)propoxy]-2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6-methoxy-N-(1-methyl-4-piperidinyl)-4quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

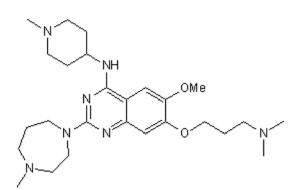
Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_{26}H_{43}N_7O_2.1\frac{1}{4}H_2O$ 508.19 White solid 1eq. HCl to 100 mM DMSO to 100 mM

ethanol to 100 mM Store at +4°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC:

HPLC:

¹H NMR:

Mass Spectrum:

Microanalysis:

R _f = 0.2 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])							
Shows 99.2% purity							
Consistent with structure							
Consistent with structure							
Carbon Hydrogen Nitrogen							
Theoretical	61.45	9.02	19.29				
Found	61.59	8.85	19.17				

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

TOCRIS a biotechne brand

www.tocris.com

Product Name: UNC 0224

Catalog No.: 3861 Ba

Batch No.: 2

CAS Number: 1197196-48-7

7-[3-(Dimethylamino)propoxy]-2-(hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-6-methoxy-*N*-(1-methyl-4-piperidinyl)-4quinazolinamine

Description:

IUPAC Name:

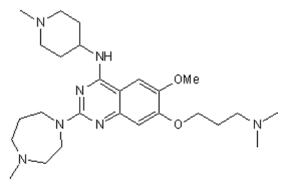
UNC 0224 is a potent G9a and GLP inhibitor (IC_{50} values are 15 and 20 nM in a ThioGlo assay, respectively). Exhibits >1000-fold selectivity for G9a over SET7, SET8 and SET9. UNC 0224 can be used in protocols for the chemical reprogramming of somatic cells to iPSCs.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{26}H_{43}N_7O_2$.1¼H₂O Batch Molecular Weight: 508.19 Physical Appearance: 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 ethanol 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 $45-60^{\circ}C$ 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:

Guan *et al* (2022) Chemical reprogramming of human somatic cells to pluripotent stem cells. Nature **605** 325. PMID: 35418683. **Liu** *et al* (2009) Discovery of a 2,4-diamino-7-aminoalkoxyquinazoline as a potent and selective inhibitor of histone lysine methyltransferase G9a. J.Med.Chem. **52** 7950. PMID: 19891491.

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bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0) 1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0) 1235 529449tel: +1 612 379 2956