TOCRIS
a bio-techne brand

Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **UNC 1215** **Catalog No.: 4666** **Batch No.: 1**

IUPAC Name: 2-Phenylamino-1,4-[4-(pyrrolidinyl)piperidinyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{32}H_{43}N_5O_2 \cdot 1½H_2O$

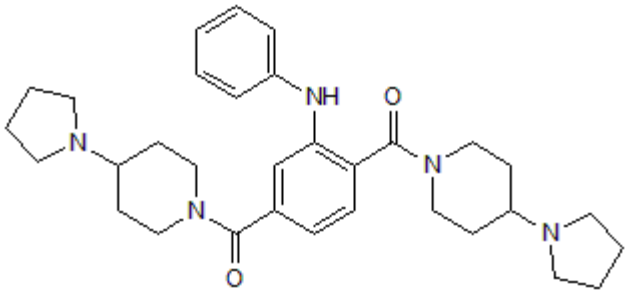
Batch Molecular Weight: 556.74

Physical Appearance: Off-white solid

Solubility: ethanol to 100 mM
DMSO to 50 mM
2eq.HCl to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.04	8.33	12.58
Found	69.26	7.95	12.58

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

Product Name: **UNC 1215** **Catalog No.: 4666** **Batch No.: 1**

IUPAC Name: 2-Phenylamino-1,4-[4-(pyrrolidinyl)piperidinyl)benzamide

Description:

Potent inhibitor of L3MBTL3 methyllysine (Kme) reader domain (IC_{50} = 40 nM; K_d = 120 nM). Displays >100-fold selectivity over a panel of histone methyltransferases, kinases, ion channels and 7-TM receptors. Disrupts subnuclear localization and foci formation of fluorescently-labeled L3MBTL3 in HEK293 cells.

Physical and Chemical Properties:

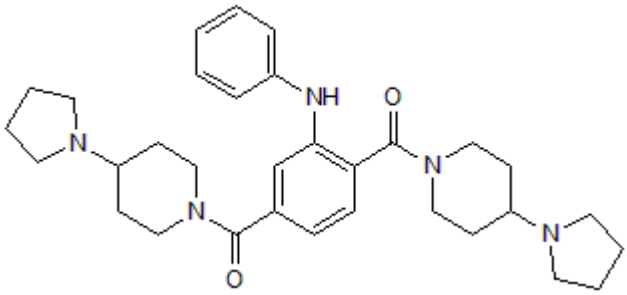
Batch Molecular Formula: $C_{32}H_{43}N_5O_2.1½H_2O$

Batch Molecular Weight: 556.74

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 100 mM
DMSO to 50 mM
2eq.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:

James *et al* (2013) Discovery of a chemical probe for the L3MBTL3 methyllysine reader domain. Nat.Chem.Biol. [Epub ahead of print]. PMID: 23292653.