

Certificate of Analysis

Product Name: UNC 2327

Catalog No.: 5057

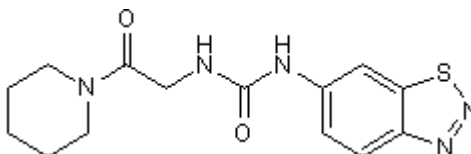
Batch No.: 1

CAS Number: 1426152-53-5

IUPAC Name: *N*-1,2,3-Benzothiadiazol-6-yl-*N*-[2-oxo-2-(1-piperidiny)ethyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₇N₅O₂S
Batch Molecular Weight: 319.38
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
ethanol to 10 mM with sonication
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.65	5.37	21.93
Found	52.5	5.4	21.66

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

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Description:

Allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3) (IC₅₀ = 230 nM). Noncompetitive with both the peptide substrate and cofactor.

Physical and Chemical Properties:

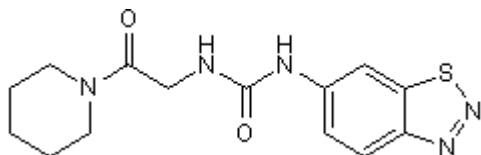
Batch Molecular Formula: C₁₄H₁₇N₅O₂S

Batch Molecular Weight: 319.38

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with sonication

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) Exploiting an allosteric binding site of PRMT3 yields potent and selective inhibitors. *J.Med.Chem.* **56** 2110. PMID: 23445220.

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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