

Product Name: ML 323

Catalog No.: 6435

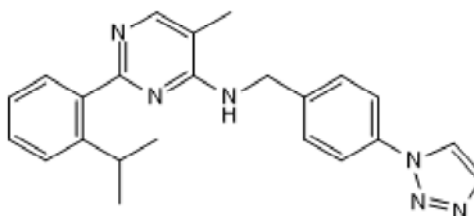
Batch No.: 1

CAS Number: 1572414-83-5

IUPAC Name: 5-Methyl-2-[2-(1-methylethyl)phenyl]-N-[[4-(1*H*-1,2,3-triazol-1-yl)phenyl]methyl]-4-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄N₆
Batch Molecular Weight: 384.48
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.85	6.29	21.86
Found	71.63	6.22	21.78

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

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Description:

Potent and selective allosteric inhibitor of USP1-UAF1 deubiquitinase complex (IC₅₀ = 76 nM). Exhibits selectivity for USP1-UAF1 over a panel of enzymes, including other deubiquitinating enzymes. Inhibits deubiquitination of PCNA and FANCD2 and sensitizes cisplatin-resistant H596 cells to cell death induced by cisplatin (Cat. No. 2251) in vitro.

Physical and Chemical Properties:

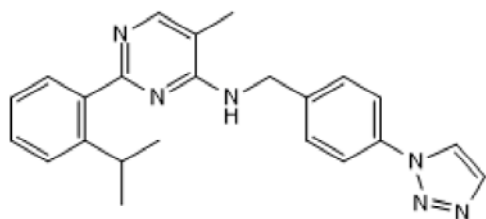
Batch Molecular Formula: C₂₃H₂₄N₆

Batch Molecular Weight: 384.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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°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:

Liang *et al* (2014) A selective USP1-UAF1 inhibitor links deubiquitination to DNA damage responses. *Nat.Chem.Biol.* **10** 298. PMID: 24531842.

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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