

Certificate of Analysis

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Product Name: IMP 2373

Catalog No.: 8171

Batch No.: 1

IUPAC Name: 4-(1-Cyanopyrrolidine-3-carbonyl)-N-[(4-ethynylphenyl)methyl]-1-methylpyrrole-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₀N₄O₂·¼H₂O

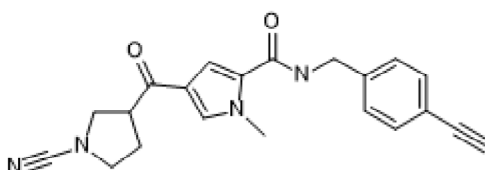
Batch Molecular Weight: 364.92

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	69.12	5.66	15.35
Found	68.61	5.42	15.17

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

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Description:

IMP 2373 is a pan-deubiquitinase (pan-DUB) activity-based probe with alkyne click handle. IMP 2373 interacts with more than 35 DUBs in diverse cell lines and across a range of non-toxic concentrations. IMP 2373 can be used to monitor changes in intracellular DUB activity in live cells during pharmacological inhibition and in vivo during MYC deregulation in a model of B cell lymphoma.

Physical and Chemical Properties:

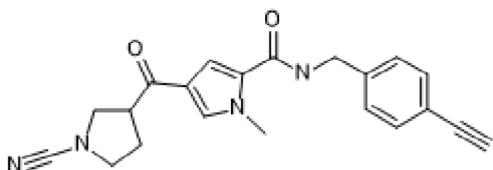
Batch Molecular Formula: C₂₁H₂₀N₄O₂·½H₂O

Batch Molecular Weight: 364.92

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Conole et al (2023) Discovery of a potent Deubiquitinase (DUB) small-molecule activity-based probe enables broad spectrum DUB activity profiling in living cells. *Angew Chem.Int.Ed.Engl.* **62** e202311190. PMID: 37779326.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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