

Certificate of Analysis

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Product Name: UK 383367

Catalog No.: 4188

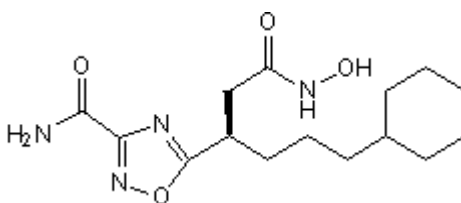
Batch No.: 1

CAS Number: 348622-88-8

IUPAC Name: 3-(Aminocarbonyl)- β -(3-cyclohexylpropyl)-*N*-hydroxy-1,2,4-oxadiazole-5-propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₄N₄O₄
Batch Molecular Weight: 324.38
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.54	7.46	17.27
Found	55.57	7.46	17.37

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

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Description:

Potent and selective inhibitor of BMP-1 (procollagen C-proteinase; PCP) (IC₅₀ = 44 nM). Selective for BMP-1 over MMPs 1, 2, 3, 9 and 14 (IC₅₀ values are >10,000 nM for listed MMPs).

Physical and Chemical Properties:

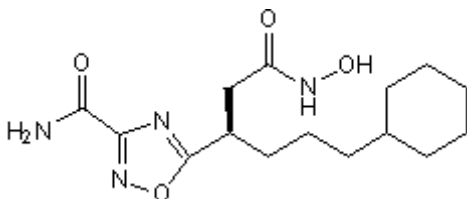
Batch Molecular Formula: C₁₅H₂₄N₄O₄

Batch Molecular Weight: 324.38

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Allan et al (2006) Pharmacokinetics and metabolism of UK-383,367 in rats and dogs: a rationale for long-lived plasma radioactivity. *Xenobiotica* **36** 399. PMID: 16854779.

Fish et al (2007) Potent and selective nonpeptidic inhibitors of procollagen C-proteinase. *J.Med.Chem.* **50** 3442. PMID: 17591762.

Bailey et al (2008) Succinyl hydroxamates as potent and selective non-peptidic inhibitors of procollagen C-proteinase: design, synthesis, and evaluation as topically applied, dermal anti-scarring agents. *Bioorg.Med.Chem.Lett.* **18** 6562. PMID: 18945617.

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