

**Product Name:** UK 356618

**Catalog No.:** 4187

**Batch No.:** 1

CAS Number: 230961-08-7

IUPAC Name: *N*1-[(1*S*)-2,2-Dimethyl-1-[[[(1*R*)-1-phenylethyl]amino]carbonyl]propyl]-*N*<sup>4</sup>-hydroxy-2-[3-(2-methyl[1,1'-biphenyl]-4-yl)propyl]-butanediamine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>34</sub>H<sub>43</sub>N<sub>3</sub>O<sub>4</sub>·½H<sub>2</sub>O

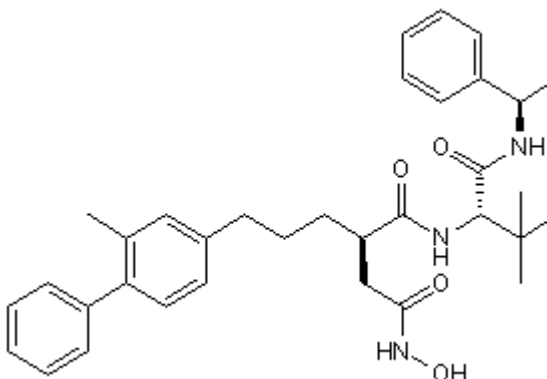
**Batch Molecular Weight:** 566.73

**Physical Appearance:** Beige solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 95.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	72.06	7.83	7.41
Found	71.99	7.72	7.27

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**Description:**

Potent and selective inhibitor of MMP-3 (IC<sub>50</sub> = 5.9 nM). Displays selectivity over a range of MMPs (IC<sub>50</sub> values are 73, 840, 1790, 1900 and 51000 for MMP-13, MMP-9, MMP-2, MMP-14 and MMP-1 respectively).

**Physical and Chemical Properties:**

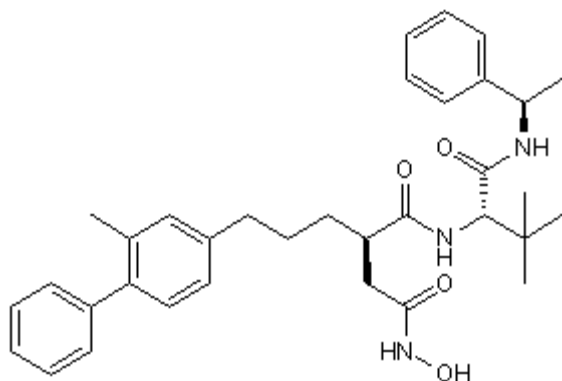
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Batch Molecular Weight: 566.73

Physical Appearance: Beige solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**References:**

**Fray and Dickinson** (2001) Discovery of potent and selective succinyl hydroxamate inhibitors of matrix metalloprotease-3 (stromelysin-1). *Bioorg.Med.Chem.Lett.* **11** 571. PMID: 11229774.

**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.

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