Product Name: Ro 32-3555
Catalog No.: 2916
Batch No.: 3

CAS Number: 190648-49-8
IUPAC Name: \((\alpha R,\beta R)-\beta-(Cyclopentylmethyl)-N-hydroxy-\gamma-oxo-\alpha-\[(3,4,4-trimethyl-2,5-dioxo-1-imidazolidinyl)methyl]-1-piperidinebutanamide\)

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \(C_{22}H_{36}N_4O_5\cdot\frac{1}{2}H_2O\)
- **Batch Molecular Weight:** 445.56
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 100 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **TLC:** 
  \(R_f = 0.51\) (Dichloromethane:Methanol [9:1])
- **HPLC:** Shows 97.7% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: Carbon 59.31, Hydrogen 8.37, Nitrogen 12.57
  - Found: Carbon 59.21, Hydrogen 8.33, Nitrogen 12.49

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

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Product Name: Ro 32-3555  
Catalog No.: 2916  
Batch No.: 3

Description:
Potent, collagenase-selective MMP inhibitor (K_i values are 3.0, 3.4, 4.4, 59, 154 and 527 nM for MMP-1, MMP-13, MMP-8, MMP-9, MMP-2 and MMP-3 respectively). Inhibits cartilage breakdown in vitro and in vivo and displays antiarthritic activity. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C_{32}H_{29}N_{4}O_{6}·\frac{1}{2}H_{2}O
Batch Molecular Weight: 445.56
Physical Appearance: White solid
Minimum Purity: >97%

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:

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