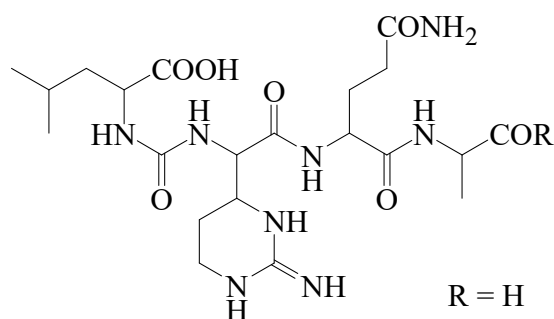




>>Entry Name: Elastatinal A



CAS Registry Number: 51798-45-9

Type of Compound Code(s): VV0400

Molecular Formula: C₂₁H₃₆N₈O₇

Molecular Weight: 512.565

Accurate Mass: 512.270697

Percentage Composition: C 49.21%; H 7.08%; N 21.86%; O 21.85%

General Statement: Oligopeptide antibiotic

Biological Source: Isol. from *Streptomyces griseoruber*

Use/Importance: Elastase inhibitor

Physical Description: Powder

Optical Rotation: [α]_D +2 (H₂O)

Solubility: BERDY SOL: Sol. MeOH, H₂O, DMSO, Py; fairly sol. Me₂CO, 1-propanol, EtOH; poorly sol. butanol, hexane, EtOAc

UV: [neutral] $\lambda_{\max}$ 298 (E1%/1cm 2.5) (pH 7 buffer) (Berdy) [acid] $\lambda_{\max}$ 275 (E1%/1cm 1.5) (HCl) (Berdy) [base] $\lambda_{\max}$ 304 (E1%/1cm 78.8) (NaOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 250 - 750 mg/kg

Fluka: 45133

Sigma: E0881

References:

Umezawa, H. *et al.*, *J. Antibiot.*, 1973, **26**, 787, (*isol*)

Okura, A. *et al.*, *J. Antibiot.*, 1975, **28**, 337, (*struct*)

Umezawa, H., *Methods Enzymol.*, 1976, 45, (*rev*)

Umezawa, K. *et al.*, *Recept. Biochem. Methodol.*, 1984, **2**, 139; *CA*, **101**, 3217, (*props*)