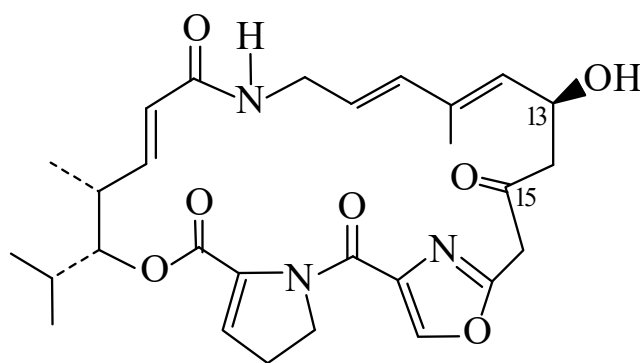




>>Entry Name: **Ostreogrycin A**

ENTRY UNDER REVIEW

Synonym(s): Mikamycin A. Pristinamycin II_A. Staphylomycin M₁. Streptogramin A. Syncothrecin A. Synergistin A₁. Virginiamycin M₁. Vernamycin A. E129A. PA 114A. 1745Z₃A. 547C. Antibiotic 14752-2. Antibiotic E129A. Antibiotic PA 114A. Antibiotic 1745Z₃A. Antibiotic 547C. Factor M



CAS Registry Number: 21411-53-0

Related CAS Registry Numbers(s): 118693-64-4 118759-89-0

Molecular Formula: C₂₈H₃₅N₃O₇

Molecular Weight: 525.6

Accurate Mass: 525.247502

Percentage Composition: C 63.99%; H 6.71%; N 7.99%; O 21.31%

Biological Source: Isol. from *Streptomyces pristinaespiralis*, *Streptomyces virginiae* and other *Streptomyces* spp.

Use/Importance: Active against gram-positive organisms

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 200 dec.°

Optical Rotation: [α]_D²³ -209 (c, 1 in EtOH)

Calculated Log P Data: Log P 0.39 (uncertain value) (calc)

UV: [acid] $\lambda_{\max}$ 303 (ϵ 15800) (EtOH/HCl) (Derep) [base] $\lambda_{\max}$ 293 (ϵ 21900) (EtOH/NaOH) (Derep) [neutral] $\lambda_{\max}$ 228 (ϵ 32400); 272 (sh) (ϵ 10000) (95% EtOH) (Derep)

Sigma: V2753

>>**Derivative:** Mixture with *ca.* 25% other Virginamycins

Synonym(s): **Virginiamycin**, BAN, INN, USAN. Cebin V. Eskalin V. Eskamicin. Stafac. Staphylomycin. Mikamycin. Ostreogrycin. Patricin. Pristinamycin. Streptogramin. Vernamycin

CAS Registry Number: 11006-76-1

Use/Importance: Antibacterial food additive

Physical Description: Powder

Development Status: Discontinued

Optical Rotation: [α]_D -124 (c, 0.05 in EtOH)

Other Data: Dec. at 138-140°

Hazard & Toxicity: LD₅₀ (mus, orl) 2100 mg/kg

>>**Derivative:** 13-Deoxy

Synonym(s): **Antibiotic L 156588**. L 156588

CAS Registry Number: 118693-65-5

Molecular Formula: C₂₈H₃₅N₃O₆

Molecular Weight: 509.601

Accurate Mass: 509.252587

Percentage Composition: C 65.99%; H 6.92%; N 8.25%; O 18.84%

Biological Source: From *Streptomyces olivaceus*

Use/Importance: Gastrin and brain cholecystokinin antagonist

Solubility: BERDY SOL: Sol. MeOH, EtOAc; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 212 (ϵ 28400); 275 (ϵ 38900) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 213 (E1%/1cm 542) (MeOH) (Berdy)

>>**Derivative:** 13-Deoxy, 13,14-epoxy

Synonym(s): **Antibiotic L 156587**. L 156587

CAS Registry Number: 119465-45-1