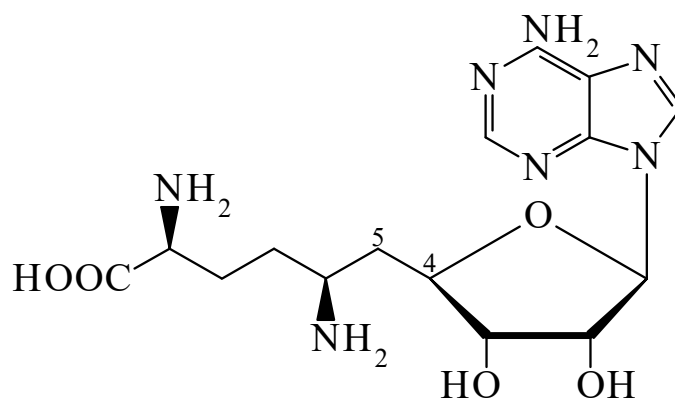




>>Entry Name: Sinefungin, INN, USAN

Synonym(s): A 9145. RP 32232. Antibiotic A 9145. Antibiotic RP 32232. Lilly 57926



CAS Registry Number: 58944-73-3

Molecular Formula:  $C_{15}H_{23}N_7O_5$

Molecular Weight: 381.391

Accurate Mass: 381.176068

Percentage Composition: C 47.24%; H 6.08%; N 25.71%; O 20.98%

Biological Source: From *Streptomyces griseolus* and *Streptomyces incarnatus*

Biological Use/Importance: Antiviral agent with antifungal props.

Development Status: Never marketed

Calculated Log P Data: Log P -6.43 (calc)

UV: [acid]  $\lambda_{\max}$  207 ( $\epsilon$  15900); 258 ( $\epsilon$  11100) ( $H_2O/HCl$ ) (Derep) [base]  $\lambda_{\max}$  256 ( $\epsilon$  14400) (0.1N NaOH) (Derep) [neutral]  $\lambda_{\max}$  207 ( $\epsilon$  19800); 258 ( $\epsilon$  12400) ( $H_2O$ ) (Derep)

Hazard & Toxicity: LD<sub>50</sub> (mus, orl) 1000 mg/kg

Sigma: S8507

>>Derivative:  $\delta$ -Lactam

Synonym(s): Antibiotic RP 35391. RP 35391

CAS Registry Number: 67214-43-1

Molecular Formula:  $C_{15}H_{21}N_7O_4$

Molecular Weight: 363.375

Accurate Mass: 363.165503

Percentage Composition: C 49.58%; H 5.82%; N 26.98%; O 17.61%

Biological Source: From *Streptomyces griseolus* and *Streptomyces incarnatus*

Biological Use/Importance: Antifungal agent

>>Derivative: 4,5-Didehydro

Synonym(s): Dehydrosinefungin. A 9145C. Antibiotic A 9145C. C-Factor. SF 1306A. Antibiotic SF 1306A

CAS Registry Number: 66753-47-7

Extra CAS Registry Numbers(s): 52934-70-0

Molecular Formula:  $C_{15}H_{21}N_7O_5$

Molecular Weight: 379.375

Accurate Mass: 379.160418

Percentage Composition: C 47.49%; H 5.58%; N 25.84%; O 21.09%

Biological Source: From *Streptomyces griseolus* and *Streptomyces echinatus*

Biological Use/Importance: Antifungal agent

Optical Rotation:  $[\alpha]_D^{25}$  -15.8 ( $H_2O$ )

References: