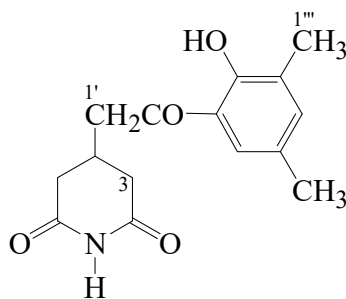




>>Entry Name: Actiphenol

Synonym(s): 4-[2-(2-Hydroxy-3,5-dimethylphenyl)-2-oxoethyl]-2,6-piperidinedione, 9Cl. 3-(2-Hydroxy-3,5-dimethylphenacyl)glutarimide, 8Cl. C 73. Antibiotic C 73



CAS Registry Number: 526-02-3

Molecular Formula: C₁₅H₁₇NO₄

Molecular Weight: 275.304

Accurate Mass: 275.115759

Percentage Composition: C 65.44%; H 6.22%; N 5.09%; O 23.25%

Biological Source: Prod. by *Streptomyces noursei*, *Streptomyces albulus*, *Streptomyces griseus* and *Streptomyces pulveraceus*

Biological Use/Importance: Fungicide and shows antitumour props.

Physical Description: Needles (MeOH/CH₂Cl₂)

Melting Point: Mp 201-203°

>>Derivative: 3-Hydroxy (3,4-*trans*-)

Synonym(s): Antibiotic **C73X**. C73X

CAS Registry Number: 20988-33-4

Molecular Formula: C₁₅H₁₇NO₅

Molecular Weight: 291.303

Accurate Mass: 291.110674

Percentage Composition: C 61.85%; H 5.88%; N 4.81%; O 27.46%

Biological Source: Prod. by *Streptomyces griseus*

Physical Description: Cryst.

UV: [neutral] λ_{max} 262 (ε 11700); 347 (ε 4300) (MeOH)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 100 - 200 mg/kg

>>Derivative: 1'-Hydroxy

Synonym(s): Nong-kang **101G**

CAS Registry Number: 75314-78-2

Molecular Formula: C₁₅H₁₇NO₅

Molecular Weight: 291.303

Accurate Mass: 291.110674

Percentage Composition: C 61.85%; H 5.88%; N 4.81%; O 27.46%

Biological Source: Isol. from *Streptomyces aureus*

UV: [neutral] λ_{max} 267 (ε 11620); 356 (ε 3820) (EtOH) (Berdy)

>>Derivative: 1'''-Hydroxy

Synonym(s): Antibiotic **AH 135Y**. AH 135Y

CAS Registry Number: 145066-21-3

Molecular Formula: C₁₅H₁₇NO₅

Molecular Weight: 291.303

Accurate Mass: 291.110674

Percentage Composition: C 61.85%; H 5.88%; N 4.81%; O 27.46%

Biological Source: Prod. by *Streptomyces albovinaceus*

Biological Use/Importance: Antiherpetic agent

Physical Description: Powder

Melting Point: Mp 220°

Solubility: BERDY SOL: Sol. MeOH, Me₂CO, DMSO, EtOH, EtOAc; fairly sol. CHCl₃, C₆H₆; poorly sol. H₂O, Et₂O, hexane

UV: [acid] λ_{max} 219 (sh) (ε 14800); 260 (ε 7070); 342 (ε 3260) (MeOH/HCl) (Derep) [neutral] λ_{max} 219 (sh) (ε 18500); 260 (ε 9070); 343 (ε 4030) (MeOH) (Derep)

[neutral] λ_{max} 219 (ε 15472); 260 (ε 9066); 343 (ε 4026) (MeOH) (Berdy) [acid] λ_{max} 219 (ε 14921); 260 (ε 7066); 342 (ε 3257) (MeOH-HCl) (Berdy)

References: