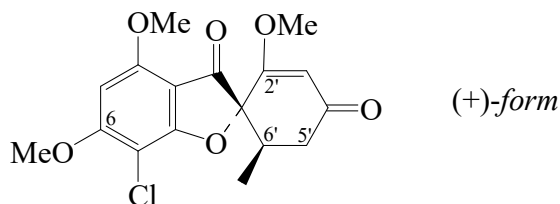




>>Entry Name: Griseofulvin, BAN, BSI, INN, ISO, JMAF

Synonym(s): 7-Chloro-2',4,6-trimethoxy-6'-methylspiro[benzofuran-2(3*H*),1'-[2]cyclohexene]-3,4'-dione, 9Cl. Amudane. Grisovin. Fulvicin. Curling factor. Gricin. Grifulvin. Grisactin. Fulcin. Norofulvin. Likuden. Idifulvin. NSC 34533



Related CAS Registry Numbers(s): 7776-77-4

Molecular Formula: C₁₇H₁₇ClO₆

Molecular Weight: 352.77

Accurate Mass: 352.071367

Percentage Composition: C 57.88%; H 4.86%; Cl 10.05%; O 27.21%

Biological Use/Importance: Antifungal agent with affinity for keratin. Now superseded

Calculated Log P Data: Log P 1.76 (calc)

UV: [neutral] λ_{max} 211 (ε 18000); 217 (ε 18000); 236 (ε 22400); 250 (sh) (ε 14000); 291 (ε 22000); 324 (ε 15800) (MeOH) (Derep)

>>Variant: (+)-form

CAS Registry Number: 126-07-8

Molecular Formula: C₁₇H₁₇ClO₆

Molecular Weight: 352.77

Accurate Mass: 352.071367

Percentage Composition: C 57.88%; H 4.86%; Cl 10.05%; O 27.21%

Biological Source: Metab. of *Penicillium griseofulvum*

Physical Description: Octahedra (C₆H₆)

Melting Point: Mp 225-226°

Optical Rotation: [α]_D¹⁷ +370 (CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, dioxan, DMF, Et₂O; fairly sol. toluene; poorly sol. H₂O, hexane

UV: [neutral] λ_{max} 236 (ε 28800); 288 (ε 25700); 324 (ε 6000) (MeOH) (Berdy) [neutral] λ_{max} 211 (ε 17560); 235 (ε 23700); 236 (ε 16420); 291 (ε 15500); 292 (ε 17540); 325 (ε 24500) (EtOH) (Berdy)

Other Data: Pharmacol. active isomer

Hazard & Toxicity: Skin rashes and other adverse effects reported when used therapeutically. Possible human carcinogen. LD₅₀ (mus, scu) 1200 mg/kg. Exp. neoplastic and teratogenic effects ; BERDY HAZD : LD₅₀ (mus, ivn) 280 mg/kg , LD₅₀ (mus, ipr) 1150 mg/kg , LD₅₀ (mus, scu) 12000 mg/kg

Aldrich: 85644-4

Fluka: 50872

Sigma: G4753

>>Derivative: 2'-O-De-Me

Synonym(s): Griseofulvic acid

CAS Registry Number: 469-54-5

Source/Synthesis: Degradn. prod. of Griseofulvin

Physical Description: Prisms (AcOH)

Melting Point: Mp 255-258 dec.°

Optical Rotation: [α]_D²² +406 (NaOH aq.)

>>Derivative: 6-O-De-Me

Synonym(s): 6-Demethylgriseofulvin

CAS Registry Number: 20168-88-1

Molecular Formula: C₁₆H₁₅ClO₆

Molecular Weight: 338.744

Accurate Mass: 338.055717

Percentage Composition: C 56.73%; H 4.46%; Cl 10.47%; O 28.34%

Biological Source: Metab. of *Penicillium raistrickii*

Physical Description: Yellow solid