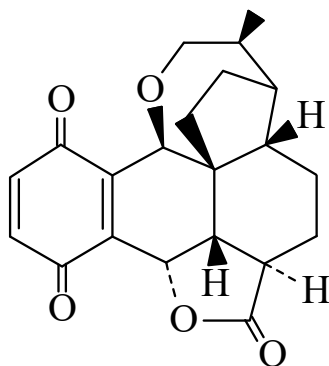




>>Entry Name: **Pleurotin**

Synonym(s): Geogenine



CAS Registry Number: 1404-23-5

Related CAS Registry Numbers(s): 77550-91-5

Molecular Formula: $C_{21}H_{22}O_5$

Molecular Weight: 354.402

Accurate Mass: 354.146725

Percentage Composition: C 71.17%; H 6.26%; O 22.57%

Biological Source: Isol. from *Pleurotus griseus*, *Geopetalum geogerium* and *Hohenbuehelia geogenius*

Use/Importance: Active against gram-positive bacteria, mycobacteria and possesses antitumour activity

Physical Description: Amber cryst.

Melting Point: Mp 200-215 dec.°

Optical Rotation: $[\alpha]_D^{23} -20$ (CHCl₃)

UV: [neutral] λ_{max} 250 (ϵ 14200) (96% EtOH) (Derep)

>>Derivative: Hydroquinone

Synonym(s): **Leucopleurotin**

CAS Registry Number: 158204-27-4

Molecular Formula: $C_{21}H_{24}O_5$

Molecular Weight: 356.418

Accurate Mass: 356.162375

Percentage Composition: C 70.77%; H 6.79%; O 22.44%

Biological Source: Prod. by *Hohenbuchelia* sp. and *Nematoctonus* spp.

Physical Description: Yellow powder

References:

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Arigoni, D., *Pure Appl. Chem.*, 1968, **17**, 331, (*struct*)
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Riondel, J. *et al.*, *Acta Cryst. C*, 1981, **37**, 1309, (*cryst struct*)
Riondel, J. *et al.*, *Arzneim.-Forsch.*, 1981, **31**, 293, (*isol, uv, ir, pmr, cmr, ms*)
Hart, D.J. *et al.*, *J.A.C.S.*, 1988, **110**, 1634, (*synth*)
Stadler, M. *et al.*, *Nat. Prod. Lett.*, 1994, **4**, 209-216, (*Leucopleurotin*)
Anke, H. *et al.*, *Can. J. Bot.*, Suppl., 1995, **73**, S932-S939, (*isol*)