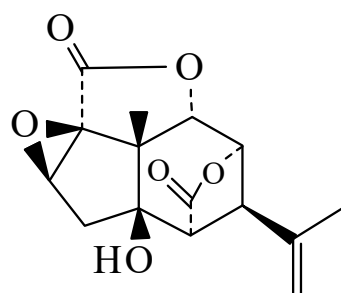




>>Entry Name: Picrotoxinin



Absolute
configuration

CAS Registry Number: 17617-45-7

Molecular Formula: $C_{15}H_{16}O_6$

Molecular Weight: 292.288

Accurate Mass: 292.09469

Percentage Composition: C 61.64%; H 5.52%; O 32.84%

Biological Source: Isol. from *Anamirta cocculus*, *Menispermum cocculus* and others, as component of Picrotoxin

Use/Importance: An ichthyotoxin. Potent convulsant drug

Physical Description: Cryst. (H_2O)

Melting Point: Mp 209.5°

Optical Rotation: $[\alpha]_D -5.85$ (c, 3.65 in $CHCl_3$) (0)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 3 mg/kg

Sigma: P8390

>>Derivative: Compd. with picrotin (1:1)

Synonym(s): Picrotoxin. Cocculin†

CAS Registry Number: 124-87-8

Molecular Formula: $C_{30}H_{34}O_{13}$

Molecular Weight: 602.591

Accurate Mass: 602.199945

Percentage Composition: C 59.80%; H 5.69%; O 34.52%

Biological Source: Bitter principle from berries of the shrubs *Anamirta cocculus*, *Menispermum cocculus* and other spp.

Use/Importance: Powerful nonspecific CNS stimulant; GABA_A-receptor antagonist. Anticonvulsant, antiepileptic agent. Used in neurochemical research

Physical Description: Cryst. (EtOH)

Melting Point: Mp 203-204°

Optical Rotation: $[\alpha]_D^{12} -30$ (H_2O)

Hazard & Toxicity: Convulsant toxin, very toxic if swallowed. LD_{Lo} (hmn, orl) 0.4 mg/kg. LD₅₀ (rat, ivn) 1.6 mg/kg.

Aldrich: P4470-6

Fluka: 80410

Sigma: P1675

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