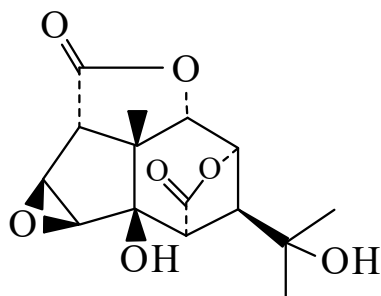




>>Entry Name: Picrotin



CAS Registry Number: 21416-53-5

Molecular Formula:  $C_{15}H_{18}O_7$

Molecular Weight: 310.303

Accurate Mass: 310.105255

Percentage Composition: C 58.06%; H 5.85%; O 36.09%

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

Use/Importance: GABA<sub>A</sub> receptor antagonist. Convulstant but less active than Picrotoxinin [KCQ94-Y](#)

Physical Description: Cryst. (H<sub>2</sub>O)

Melting Point: Mp 255°

Optical Rotation:  $[\alpha]_D^{16} -70$  (EtOH)

Calculated Log P Data: Log P -3.86 (uncertain value) (calc)

Hazard & Toxicity: LD<sub>50</sub> (mus, ipr) 135 mg/kg

Sigma: P7143

References:

Clark, E.P., *J.A.C.S.*, 1935, **57**, 3046, (*synth*)

Craven, B.M., *Tet. Lett.*, 1960, **No. 19**, 21, (*struct*)

Jarboe, C.H. *et al.*, *J. Med. Chem.*, 1968, **11**, 729, (*pharmacol*)

Corey, E.J. *et al.*, *Tet. Lett.*, 1980, 1823, (*synth*)

Soto-Otero, R. *et al.*, *J. Pharm. Biomed. Anal.*, 1989, **7**, 369, (*hplc*)

Miyashita, M. *et al.*, *J.A.C.S.*, 1989, **111**, 3728, (*synth*)