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PRODUCT INFORMATION



Picrotoxin

Item No. 20771

CAS Registry No.: 124-87-8

Formal Name: (1aR,2aR,3S,6R,6aS,8aS,8bR,9R)-hexahydro-2a-hydroxy-

> 8b-methyl-9-(1-methylethenyl)-3,6-methano-8H-1,5,7trioxacyclopenta[ij]cycloprop[a]azulene-4,8(3H)-dione compd. with (1aR,2aR,3S,6R,6aS,8aS,8bR,9S)-hexahydro-2a-hydroxy-9-(1-hydroxy-1-methylethyl)-8b-methyl-3,6-methano-8H-1,5,7-trioxacyclopenta[ij]cycloprop[a]

azulene-4,8(3H)-dione

Cocculin, NSC 403139 Synonyms: MF: C₁₅H₁₈O₇ • C₁₅H₁₆O₆

FW: 602.6

Purity: ≥98% (mixture of Picrotin and Picrotoxinin)

Supplied as: A crystalline solid

-20°C Storage:

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when

stored properly



Picrotoxin is supplied as a crystalline solid. A stock solution may be made by dissolving the picrotoxin in the solvent of choice. Picrotoxin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of picrotoxin in ethanol is approximately 15 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Picrotoxin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, picrotoxin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Picrotoxin has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Picrotoxin is a natural plant-derived poison that acts as a selective GABA_Δ receptor antagonist.^{1,2} It is functional in vivo and is used to study the role of GABA, receptors in the central nervous system as well in the periphery.^{3,4} Picrotoxin induces seizures in adult and immature animals and is used to study GABA_Adependent seizures and drugs that block this pathway.⁵

References

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WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Picrotin

Picrotoxinin

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