

Product Name: Picrotoxin

Catalog No.: 1128

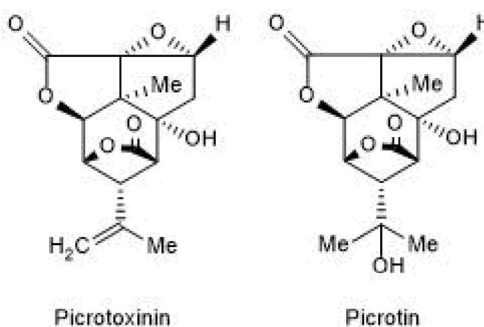
Batch No.: 20

CAS Number: 124-87-8

EC Number: 204-716-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₄O₁₃
Batch Molecular Weight: 602.59
Physical Appearance: White solid
Solubility: ethanol to 50 mM with gentle warming
DMSO to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 124-87-8

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Description:

Picrotoxin is a GABA_A receptor antagonist; potent CNS stimulant.

Physical and Chemical Properties:

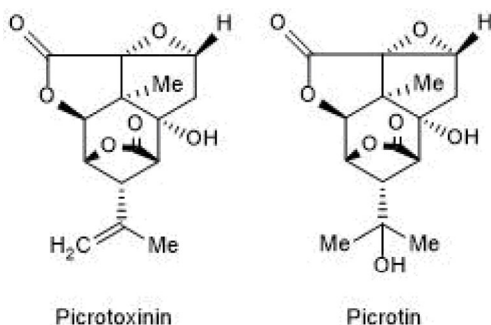
Batch Molecular Formula: C₃₀H₃₄O₁₃

Batch Molecular Weight: 602.59

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 50 mM with gentle warming

DMSO to 20 mM

POTENT NEUROTOXIN - TREAT AS EXTREMELY POISONOUS

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ette *et al* (1999) Picrotoxin blockade of invertebrate glutamate-gated chloride channels: subunit dependence and evidence for binding within the pore. *J.Neurochem.* **72** 318. PMID: 9886084.

Dillon *et al* (1995) Enhancement by GABA of the association rate of picrotoxin and tert-butylbicyclophosphorothionate to the rat cloned α1β2γ2 GABA_A receptor subtype. *Br.J.Pharmacol.* **115** 539. PMID: 7582470.

Newland and Cull-Candy (1992) On the mechanism of action of picrotoxin on GABA receptor channels in dissociated sympathetic neurones of the rat. *J.Physiol.* **447** 191. PMID: 1317428.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956