

## Picrotoxinin

## Chemical Properties

CAS No. : 17617-45-7

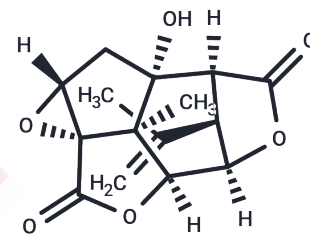
Formula: C<sub>15</sub>H<sub>16</sub>O<sub>6</sub>

Molecular Weight: 292.28

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Picrotoxinin is a blocker of chloride channel and a noncompetitive antagonist of GABAA with an IC <sub>50</sub> of 1.15 μM for α1β2γ2L GABAA. Picrotoxinin shows convulsant properties.
Targets(IC <sub>50</sub> )	GABA Receptor, Chloride channel
In vitro	Picrotoxinin (1 nM-1 mM) dose-dependently inhibits the action of the GABAA receptor and inhibits etomidate, propofol, diazepam, thiopentone sodium, loreclezole and allopregnanolone with IC <sub>50</sub> s of 0.55 μM, 0.49 μM, 0.35 μM, 0.50 μM, 0.14 μM and 0.44 μM in the presence of EC <sub>5</sub> GABA, respectively[1].

## Solubility Information

Solubility	DMSO: 90 mg/mL (307.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.29 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.4214 mL	17.1069 mL	34.2138 mL
5 mM	0.6843 mL	3.4214 mL	6.8428 mL
10 mM	0.3421 mL	1.7107 mL	3.4214 mL
50 mM	0.0684 mL	0.3421 mL	0.6843 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ng CC, et al. Effects of bilobalide, ginkgolide B and picrotoxinin on GABA

Wang L, Wang K, Chen Y, et al. NLRP3 Inflammasome Inhibition After Pilocarpine-Induced Status Epilepticus Attenuates Chronic Inflammation in Epileptic Mice. *Journal of Inflammation Research*. 2024: 6143-6158.

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