Data Sheet (Cat.No.T16533)

TargetMol

Picrotin

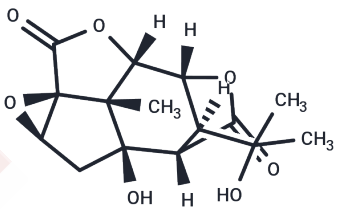
Chemical Properties

CAS No. : 21416-53-5

Formula: C15H18O7

Molecular Weight: 310.3

Storage: 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	Picrotin is an inhibitor of glycine receptors. Picrotin blocks α2 GlyR, α1 GlyR, and α3 GlyR and can be used in studies about neurotransmission.
Targets(IC50)	GABA Receptor,Chloride channel
In vitro	Picrotin has a sensitivity for α2 GlyRs with an IC50 of 13.1 μM[1].

Solubility Information

Solubility	DMSO: 257.5 mg/mL (829.84 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: 10 mg/mL (32.23 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (32.23 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2227 mL	16.1134 mL	32.2269 mL
5 mM	0.6445 mL	3.2227 mL	6.4454 mL
10 mM	0.3223 mL	1.6113 mL	3.2227 mL
50 mM	0.0645 mL	0.3223 mL	0.6445 mL

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

Li P, et al. Gating effects on picrotin block of glycine receptors. Neuroreport. 2012 Dec 5;23(17):1017-20.
Yang Z, et al. A proposed structural basis for picrotoxinin and picrotin binding in the glycine receptor pore. J Neurochem. 2007 Oct;103(2):580-9.

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