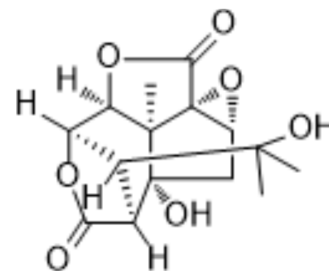


## Picrotin

<b>Cat. No.:</b>	HY-107782		
<b>CAS No.:</b>	21416-53-5		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>18</sub> O <sub>7</sub>		
<b>Molecular Weight:</b>	310.3		
<b>Target:</b>	GABA Receptor		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (322.27 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (8.06 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.06 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.06 mM); Suspended solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Picrotin is an active compound, also is one of the composition of picrotoxin (an antagonist of GABA <sub>A</sub> receptors (GABAARs) and glycine receptors (GlyRs)). Picrotin has sensitivity for GlyRs/b> with IC <sub>50</sub> values range from 5.2 μM to 106 μM. Picrotin can be used for the research of neurotransmission <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 13.1 μM (α2 GlyRs) <sup>[1]</sup>
<b>In Vitro</b>	Picrotin has sensitivity for α2 GlyRs with IC <sub>50</sub> value of 13.1 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Dian-Shi Wang, et al. Mechanisms for picrotoxinin and picrotin blocks of alpha2 homomeric glycine receptors. J Biol Chem. 2007 Jun 1;282(22):16016-35.
- [2]. 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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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