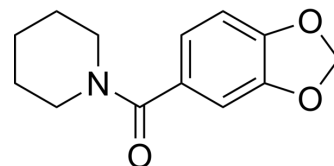


## 1-BCP

<b>Cat. No.:</b>	HY-101363		
<b>CAS No.:</b>	34023-62-6		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>15</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	233.26		
<b>Target:</b>	iGluR		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (428.71 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.2871 mL	21.4353 mL	42.8706 mL
		5 mM	0.8574 mL	4.2871 mL	8.5741 mL
10 mM		0.4287 mL	2.1435 mL	4.2871 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 (10.72 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 (10.72 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (10.72 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	1-BCP (Piperonylic acid piperidide) is a centrally active agent that modulates AMPA receptor gated currents. 1-BCP is a memory-enhancing agent <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	AMPA receptor <sup>[1]</sup> .

### REFERENCES

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[1]. Arai A, et al. A centrally active drug that modulates AMPA receptor gated currents. Brain Res. 1994 Feb 28;638(1-2):343-6.

[2]. Desai MA, et al. 1-BCP, a memory-enhancing agent, selectively potentiates AMPA-induced release in rat hippocampal slices. Neuropharmacology. 1995 Feb;34(2):141-7.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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