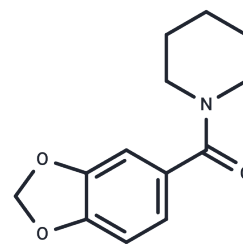


## 1-BCP

## Chemical Properties

CAS No. :	34023-62-6
Formula:	C <sub>13</sub> H <sub>15</sub> NO <sub>3</sub>
Molecular Weight:	233.26
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	1-BCP (Piperonylic acid piperidide) is a centrally active drug that modulates AMPA receptor-gated currents.
Targets(IC50)	GluR,iGluR
In vitro	A selective AMPA receptor antagonist. 1-BCP and drugs with similar activities can facilitate AMPA receptor-mediated excitotoxicity[1].

## Solubility Information

Solubility	DMSO: 11 mg/mL (47.16 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: 2 mg/mL (8.57 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	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
50 mM	0.0857 mL	0.4287 mL	0.8574 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

Yamada K A . AMPA receptor activation potentiated by the AMPA modulator 1-BCP is toxic to cultured rat hippocampal neurons[J]. Neuroscience Letters, 1998, 249(2-3):119-122.

Arai A , Kessler M , Xiao P , et al. A centrally active drug that modulates AMPA receptor gated currents[J]. Brain Research, 1994, 638(1-2):0-346.

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