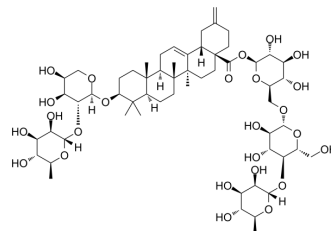


## Ciwujianoside B

<b>Cat. No.:</b>	HY-N0307
<b>CAS No.:</b>	114902-16-8
<b>Molecular Formula:</b>	C <sub>58</sub> H <sub>92</sub> O <sub>25</sub>
<b>Molecular Weight:</b>	1189.34
<b>Target:</b>	Bcl-2 Family
<b>Pathway:</b>	Apoptosis
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (84.08 mM; Need ultrasonic)				
	<b>Preparing Stock Solutions</b>	<b>Solvent</b> \ <b>Mass</b> \ <b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	0.8408 mL	4.2040 mL	8.4080 mL
		<b>5 mM</b>	0.1682 mL	0.8408 mL	1.6816 mL
		<b>10 mM</b>	0.0841 mL	0.4204 mL	0.8408 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 (2.10 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 (2.10 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.10 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ciwujianoside B is isolated from <i>Eleutherococcus senticosus</i> leaf, is able to penetrate and work in the brain after the oral administration. Ciwujianoside B significantly enhances object recognition memory <sup>[1]</sup> . Ciwujianoside B shows radioprotective effects on the hematopoietic system in mice, which is associated with changes in the cell cycle, reduces DNA damage and down-regulates the ratio of Bax/Bcl-2 in bone marrow cells exposed to radiation <sup>[2]</sup> .
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### REFERENCES

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[1]. Yamauchi Y, et al. Memory Enhancement by Oral Administration of Extract of Eleutherococcus senticosus Leaves and Active Compounds Transferred in the Brain. *Nutrients*. 2019 May 22;11(5). pii: E1142.

[2]. Li YR, et al. Comparative investigations on the protective effects of rhodioside, ciwujianoside-B and astragaloside IV on radiation injuries of the hematopoietic system in mice. *Phytother Res*. 2011 May;25(5):644-53.

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

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