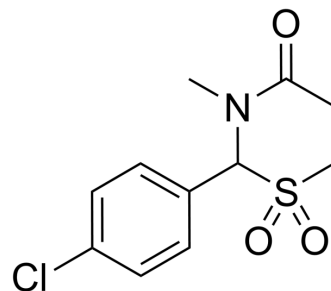


## Chlormezanone

<b>Cat. No.:</b>	HY-B0353		
<b>CAS No.:</b>	80-77-3		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>12</sub> ClNO <sub>3</sub> S		
<b>Molecular Weight:</b>	273.74		
<b>Target:</b>	GABA Receptor		
<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	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (365.31 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.6531 mL	18.2655 mL	36.5310 mL
	5 mM	0.7306 mL	3.6531 mL	7.3062 mL
	10 mM	0.3653 mL	1.8266 mL	3.6531 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 3.25 mg/mL (11.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 3.25 mg/mL (11.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 3.25 mg/mL (11.87 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Chlormezanone resembles benzodiazepine. The action of Chlormezanone is similar to benzodiazepine-type agents. Chlormezanone is used as an anxiolytic and a muscle relaxant.

#### IC<sub>50</sub> & Target

Benzodiazepine<sup>[1]</sup>

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### In Vivo

Comparative results obtained with Chlormezanone in the dosage levels capable of producing more than 80% depression in the contralateral extensor<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## PROTOCOL

### Animal Administration <sup>[1]</sup>

Cats<sup>[1]</sup>

Effects of various agents (e.g., Chlormezanone 300 mg/kg i.p.) are studied on linguomandibular, extensor and patellar reflexes in spinal cats.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Sukehiro CHIBA, et al. EFFECTS OF NEW s-TRIAZOLOBENZODIAZEPINE (D-40TA) AND OTHER CENTRAL MUSCLE RELAXANTS ON SPINAL AND SUPRASPINAL REFLEXES IN CATS. Japan. J. Pharmacol, 23, 83-96 (1973).

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

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