# Chlorzoxazone

Cat. No.:	HY-B1462			
CAS No.:	95-25-0			
Molecular Formula:	C <sub>7</sub> H <sub>4</sub> ClNO <sub>2</sub>			
Molecular Weight:	169.57			
Target:	Cytochrome P450			
Pathway:	Metabolic Enzyme/Protease			
Storage:	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 (589.73 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	5.8973 mL	29.4863 mL	58.9727 mL		
		5 mM	1.1795 mL	5.8973 mL	11.7945 mL		
		10 mM	0.5897 mL	2.9486 mL	5.8973 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol> <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 (14.74 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 (14.74 mM); Clear solution</li> </ol>						

BIOLOGICAL ACTIVITY			
Description	Chlorzoxazone is a centrally acting muscle relaxant used to treat muscle spasm and the resulting pain or discomfort. It acts on the spinal cord by depressing reflexes.Chlorzoxazone is currently being used as a marker substrate in vitro/vivo studies to quantify cytochrome P450 2E1 (CYP2E1) activity in humans.		
IC <sub>50</sub> & Target	CYP2		

## CUSTOMER VALIDATION

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- Comput Struct Biotec. 2023 Feb 24.
- Int Immunopharmacol. 2020 Nov;88:106790.

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### REFERENCES

[1]. Yamamura Y, et al. Comprehensive kinetic analysis and influence of reaction components for chlorzoxazone 6-hydroxylation in human liver microsomes with CYP antibodies. Xenobiotica. 2015 Apr;45(4):353-360.

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

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