## Dimethadione

Cat. No.:	HY-B1348			
CAS No.:	695-53-4			
Molecular Formula:	C <sub>5</sub> H <sub>7</sub> NO <sub>3</sub>			
Molecular Weight:	129.11			
Target:	Drug Metabolite			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	7.7453 mL	38.7267 mL	77.4533 mL		
		5 mM	1.5491 mL	7.7453 mL	15.4907 mL		
		10 mM	0.7745 mL	3.8727 mL	7.7453 mL		
n Vivo		lubility information to select the appropriate the operation one by one: 10% DMSO >> 40% PEC		0 >> 45% saline			
Solubility: ≥ 2.5 r 2. Add each solven Solubility: ≥ 2.5 r 3. Add each solven		mg/mL (19.36 mM); Clear solution					
		h solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) :y: ≥ 2.5 mg/mL (19.36 mM); Clear solution					
	t one by one: 10% DMSO >> 90% corn oil ng/mL (19.36 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	Dimethadione is the primary metabolite of trimethadione. Dimethadione causes depression of neuromuscular transmission. Dimethadione primarily decreases transmitter release from the nerve terminal <sup>[1]</sup> .			

### REFERENCES

## Product Data Sheet

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[1]. M T Alderdice, et al. Comparison of the effects of trimethadione and its primary metabolite dimethadione on neuromuscular function and the effects of altered pH on the actions of dimethadione.

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

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