## Propanidid

**MedChemExpress** 

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-116457 1421-14-3 C <sub>18</sub> H <sub>27</sub> NO <sub>5</sub> 337.41 GABA Receptor Membrane Transporter/Ion Channel; Neuronal Signaling Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIV			
Description	Propanidid (Sombrevin; Fabantol) is a γ-aminobutyric acid type A (GABA <sub>A</sub> ) receptor agonist and a short-acting non- barbiturate general anesthetic agent. Propanidid can decrease the arterial pressure <sup>[1][2]</sup> .		
$IC_{50}$ & Target	GABA <sub>A</sub> receptor <sup>[1]</sup>		
In Vivo	Propanidid (Sombrevin) (3-5 mg/kg; injected into the femoral vein; single dosage) changes the orientation tuning of 58 visual cortex neurons <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Adult cats (immobilized by D-tubocurarine) <sup>[3]</sup>	
	Dosage:	3-5 mg/kg	
	Administration: Injected into the femoral vein; single dosage		
	Result:	A reliable change of the preferable orientation by 47.6 ± 5.6 degrees took place in 60% of 58 primary visual cortex neurons, while in the remaining cells it was stable in all stages of anaesthesia. The width of the orientation tuning changed reliably by 65.2 ± 6.7 degrees on the average in 55% of neurons, while in 31% of neurons the tuning acuteness was worse, but in 24% it was sharper. The preferable orientation, the width of the tuning and the frequency of the neuron discharge as a rule recovered in 30 min after the beginning of the anaesthesia.	

## REFERENCES

[1]. Cenani A, et al. In vitro and in vivo GABAA Receptor Interaction of the Propanidid Metabolite 4-(2-[Diethylamino]-2-Oxoethoxy)-3-Methoxy-Benzeneacetic Acid. Pharmacology. 2019;103(1-2):10-16.

[2]. Orko R. Anaesthesia for cardioversion: a comparison of diazepam, thiopentone and propanidid. Br J Anaesth. 1976 Mar;48(3):257-62.

[3]. Lazareva NA, et al. The effect of sombrevin on the orientation adjustment of the visual cortex neurons in the cat. Neirofiziologiia. 1989;21(6):812-20.

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

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