Pivagabine

®

MedChemExpress

Cat. No.:	HY-108295		
CAS No.:	69542-93-4		
Molecular Formula:	C ₉ H ₁₇ NO ₃		
Molecular Weight:	187.24		
Target:	GABA Recep	otor	
Pathway:	Membrane	Transpor	ter/Ion Channel; Neuronal Signaling
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.3407 mL	26.7037 mL	53.4074 m
	5 mM	1.0681 mL	5.3407 mL	10.6815 m
	10 mM	0.5341 mL	2.6704 mL	5.3407 mL
Please refer to the s	olubility information to select the app	propriate solvent.		
	t one by one: 10% DMSO >> 40% PE0 ng/mL (13.35 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
	t one by one: 10% DMSO >> 90% (20 ng/mL (13.35 mM); Clear solution	% SBE-β-CD in saline)		

BIOLOGICAL ACTIV	
Description	Pivagabine (CXB 722) is a hydrophobic 4-aminobutyric acid derivative with neuromodulatory activity. Pivagabine penetrates the blood-brain barrier in rats. Pivagabine antagonizes the effects of foot shock on both GABAA receptor function and corticotropin-releasing factor (CRF) concentrations in rat brain ^{[1][2]} .
In Vivo	Pivagabine (CXB 722) (200 mg/kg; i.p.; twice a day for 4 days and 1 hour before killing on the 5th day) prevents the effects of foot-shock stress on CRF concentration in both brain regions ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Adult male Sprague-Dawley CD rats (200-250 g) ^[2]
Dosage:	200 mg/kg
Administration:	i.p.; twice a day for 4 days and 1 hour before killing on the 5th day
Result:	Prevented the effects of foot-shock stress on CRF concentration in both brain regions. Reduced by 52% the CRF concentration in the hypothalamus but had no effect on that in the cerebral cortex.

REFERENCES

[1]. Esposito G, et al. Pivagabine: a novel psychoactive drug. Arzneimittelforschung. 1997 Nov;47(11A):1306-9.

[2]. Serra M, et al. Antagonism by pivagabine of stress-induced changes in GABAA receptor function and corticotropin-releasing factor concentrations in rat brain. Psychoneuroendocrinology. 1999 Apr;24(3):269-84.

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

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