Oxprenolol

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MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-B1486A 6452-71-7 C ₁₅ H ₂₃ NO ₃ 265.35 Adrenergic Receptor GPCR/G Protein; Neuronal Signaling Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIVITY			
Description	Oxprenolol (Ba 39089 free base) is an orally bioavailable β-adrenergic receptor (β-AR) antagonist with a K _i of 7.10 nM in a radioligand binding assay using rat heart muscle ^[1] .		
IC ₅₀ & Target	β-adrenoceptor 7.10 nM (Ki)		
In Vitro	Oxprenolol is lipophilic ^[3] . Oxprenolol shows permeability rate constant of 1.54 ± 1.54×10 ⁻³ cm/h across abdominal human skin ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Oxprenolol (200 mg/kg/day; p.o.; daily for 3 weeks) produces effective beta-blockade together with peak plasma drug within the normal clinical range ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male rats (230 to 300 g body wt) of the Wistar strain ^[2]	
	Dosage:	200 mg/kg	
	Administration:	Administered orally; daily for 3 weeks	
	Result:	This dosage produced effective beta-blockade.	

CUSTOMER VALIDATION

• J Pharmaceut Biomed. 2020, 113870.

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REFERENCES

[1]. Modamio P, et al. A comparative in vitro study of percutaneous penetration of β-blockers in human skin. International journal of pharmaceutics, 2000, 194(2): 249-259.

[2]. T Nagatomo, et al. Binding Characteristics of ³H-dihydroalprenolol to Beta-Adrenoceptors of Rat Heart Treated With Neuraminidase. Jpn J Pharmacol. 1983 Aug;33(4):851-7.

[3]. A S Manning, et al. Abrupt Withdrawal of Chronic Beta-Blockade: Adaptive Changes in Cyclic AMP and Contractility. J Mol Cell Cardiol. 1981 Nov;13(11):999-1009.

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

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