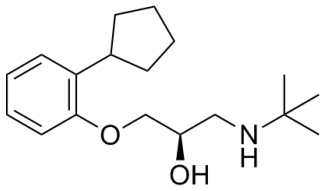
(+)-Penbutolol

Cat. No.:	HY-116790A		
CAS No.:	38363-41-6		
Molecular Formula:	$C_{18}H_{29}NO_2$		
Molecular Weight:	291.43		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	(+)-Penbutolol is a β-adrenoceptor antagonist, with an IC_{50} of 0.74 μM[1]. (+)-Penbutolol is an optical isomer of l-penbutolol with Na^+ channel-blocking action[2].
IC_{50} & Target	IC50: 0.74 μM (β-adrenoceptor)[1].
In Vitro	(+)-penbutolol on the $[Ca^{2+}]_i$-increase induced by LPC is concentration-dependent[1]. (+)-penbutolol inhibits the rounding of cells dose dependently (8±4%, 56±4% and 66±2% at the concentrations of 10^{-6} M, 5×10^{-6} M and 10^{-5} M, respectively)[2].

REFERENCES

[1]. Chen M, et al. Effects of beta-adrenoceptor antagonists on Ca(2+)-overload induced by lysophosphatidylcholine in rat isolated cardiomyocytes. Br J Pharmacol. 1996 Jun;118(4):865-70.

[2]. Hashizume H, et al. Effects of antiischemic drugs on veratridine-induced hypercontracture in rat cardiac myocytes. Eur J Pharmacol. 1994 Dec 12;271(1):1-8.

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