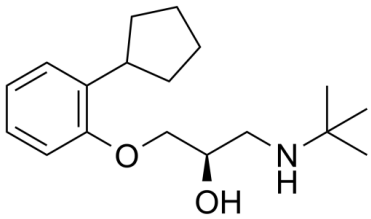
Data Sheet

Product Name:	(+)-Penbutolol
Cat. No.:	CS-0082785
CAS No.:	38363-41-6
Molecular Formula:	C18H29NO2
Molecular Weight:	291.43
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

(+)-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]. IC50 & 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.

CAIndexNames:

2-Propanol, 1-(2-cyclopentylphenoxy)-3-[(1,1-dimethylethyl)amino]-, (2R)-

SMILES:

O[C@@H](COC1=C(C=CC=C1)C2CCCC2)CNC(C)(C)C

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