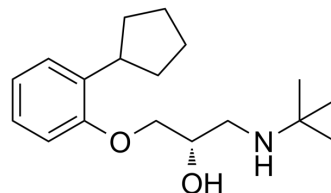


## (-)-Penbutolol

<b>Cat. No.:</b>	HY-116790
<b>CAS No.:</b>	38363-40-5
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>29</sub> NO <sub>2</sub>
<b>Molecular Weight:</b>	291.43
<b>Target:</b>	Adrenergic Receptor; 5-HT Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(-)-Penbutolol ((S)-Penbutolol) is a potent $\beta$ -adrenoceptor and 5-HT receptor antagonist with K <sub>i</sub> values of 11.6 nM and 11.9 nM for 5-HT in rat cornu ammonis 1 (CA1) and human CA3. (-)-Penbutolol can increase hippocampal 5-HT output <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	$\beta$ -adrenoceptor, 5-HT receptor <sup>[1][2]</sup>

### REFERENCES

- [1]. Hjorth S, et al. In vivo microdialysis evidence for central serotonin1A and serotonin1B autoreceptor blocking properties of the beta adrenoceptor antagonist (-)penbutolol. *J Pharmacol Exp Ther.* 1993 May;265(2):707-12.
- [2]. M E Castro, et al. Affinity of ( $\pm$ )-Pindolol, (-)-Penbutolol, and (-)-Tertatolol for Pre- and Postsynaptic Serotonin 5-HT1A Receptors in Human and Rat Brain. *Journal of Neurochemistry*, Volume 75, Issue 2, p. 755-762.

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

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