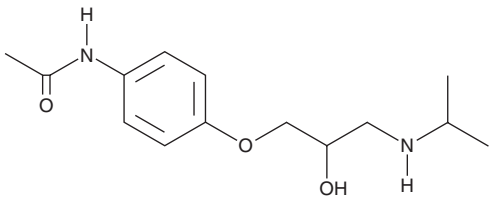
PRODUCT INFORMATION

Practolol

Item No. 46899

CAS Registry No.:	6673-35-4
Formal Name:	N-[4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-phenyl]-acetamide
MF:	$C_{14}H_{22}N_2O_3$
FW:	266.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Practolol is supplied as a solid. A stock solution may be made by dissolving the practolol in the solvent of choice, which should be purged with an inert gas. Practolol is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

Practolol is an antagonist of the β_1-adrenergic receptor (β_1-AR).[1] It selectively binds to the β_1-AR over β_2- or β_3-ARs (K_ds = 0.724, 10.2, and >100 µM, respectively). Practolol (2 mg/kg) inhibits epinephrine- and methyl chloroform-induced arrhythmia in anesthetized cats.[2] It also inhibits isoprenaline-induced tachycardia and diastolic hypotension in anesthetized cats (ED_{50}s = 0.158 and 1.6 mg/kg, i.v.).[3] Practolol is associated with oculomucocutaneous syndrome.[4] Formulations containing practolol have previously been used in the treatment of cardiac arrhythmias.

References

1. Baker, J.G. The selectivity of *β*-adrenoceptor antagonists at the human *β*1, *β*2 and *β*3 adrenoceptors. *Br. J. Pharmacol.* **144(3)**, 317-322 (2005).
2. Basil, B., Jordan, R., Loveless, A.H., *et al*. A comparison of the experimental anti-arrhythmic properties of acebutolol (M and B 17,803), propranolol and practolol. *Br. J. Pharmacol.* **50(3)**, 323-333 (1974).
3. Basil, B., Jordan, R., Loveless, A.H., *et al.* β-Adrenoceptor blocking properties and cardioselectivity of M & B 17,803A. *Br. J. Pharmacol.* **48(2)**, 198-211 (1973).
4. Wright, P. Untoward effects associated with practolol administration: Oculomucocutaneous syndrome. *Br. Med. J.* **1(5958)**, 585-598 (1975).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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