Terfenadine

Product Number T 9652
Storage Temperature 2-8 °C

**Product Description**

Molecular Formula: C$_{32}$H$_{41}$NO$_2$
Molecular Weight: 471.7
CAS Number: 50679-08-8
Melting point: 146.5-148.5 °C (acetone); may exist in three polymorphic forms with melting point ranges of 149-152 °C, 146-148 °C and 142-144 °C.¹

$\lambda_{\text{max}}$: 260 nm (methanol, ethanol)¹
Specific rotation = 0° (c = 1 in chloroform, 25 °C)
Synonyms: alpha-[4-(1,1-Dimethylethyl)phenyl]-4-(hydroxydiphenylmethyl)-1-piperidinebutanol; 1-(p-tert-butylphenyl)-4-[4'-(alpha-hydroxydiphenylmethyl)-1'-piperidyl]butanol; alpha-(p-tert-butylphenyl)-4-(alpha-hydroxy-alpha-phenylbenzyl)-1-piperidinebutanol; Seldane®

This compound is a histamine H1-receptor antagonist. It has the biological effect of being an antihistaminic.¹ Other Histamine H$_1$-receptor antagonists are chlorpheniramine, pyrilamine (also known as mepyramine) and tripolidine.

It blocks HERG (human ether-a-gogo-related gene) K$^+$ channels.² Using patch clamp techniques, it has been shown to inhibit the delayed rectifier potassium current (IK) of rat isolated ventricular myocytes with an IC$_{50}$ value of 5.96 µM.³

**Precautions and Disclaimer**

For Laboratory Use Only. Not for drug, household or other uses.

**Preparation Instructions**

This compound is soluble in chloroform (50 mg/ml), yielding a clear, colorless solution. This compound is soluble at 30 °C in water (0.01 mg/ml), ethanol (37.8 mg/ml), methanol (37.5 mg/ml), hexane (0.34 mg/ml), 1 M hydrochloric acid (0.12 mg/ml), 0.1 M citric acid (1.1 mg/ml), and 0.1 M tartaric acid (0.45 mg/ml).²

**References**

1. The Merck Index, 12th ed., Entry# 9307.

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IRB/NSB 4/03

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