



LKT Laboratories, Inc.

Phentolamine Hydrochloride

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Product Information

Product ID P2817
CAS No. 73-05-2
Chemical Name 3-[[[(4,5-Dihydro-1H-imidazol-2-yl)methyl](4-methyl-phenyl)amino]phenol hydrochloride

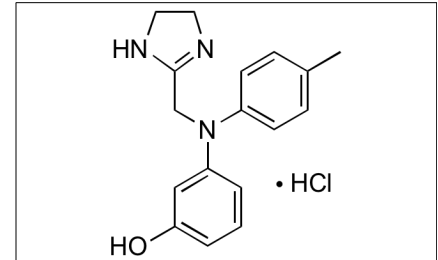
Synonym

Formula C₁₇H₁₉N₃O · HCl
Formula Wt. 317.81
Melting Point 239-240 °C
Purity ≥98%

Solubility Soluble in water (1g/50mL) and alcohol (1g/70mL). Slightly soluble in chloroform. Practically insoluble in acetone and ethyl acetate.

Store Temp Ambient
Ship Temp Ambient

Description Phentolamine is a nonselective α-adrenergic receptor antagonist that exhibits vasodilatory and antihypertensive activities. Phentolamine is occasionally used to treat erectile dysfunction. In vivo, phentolamine inhibits fructose-induced increases in blood pressure and activates ATP-sensitive K⁺ channels, altering Ca²⁺ signaling.



Bulk quantities available upon request

| Product ID | Size |
|------------|--------|
| P2817 | 50 mg |
| P2817 | 100 mg |
| P2817 | 500 mg |

References Zhou K, Kumar U, Yuen VG, et al. The effects of phentolamine on fructose-fed rats. *Can J Physiol Pharmacol.* 2012 Aug;90(8):1075-85. PMID: 22783820.

Ahn SW, Kim SH, Kim JH, et al. Phentolamine inhibits the pacemaker activity of mouse interstitial cells of Cajal by activating ATP-sensitive K⁺ channels. *Arch Pharm Res.* 2010 Mar;33(3):479-89. PMID: 20361315.

Dinsmore WW, Wyllie MG. Vasoactive intestinal polypeptide/phentolamine for intracavernosal injection in erectile dysfunction. *BJU Int.* 2008 Sep;102(8):933-7. PMID: 18485029.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.