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ProductInformation

Yohimbine hydrochloride

Product Number **Y 3125**
Store at Room Temperature

Product Description

Molecular Formula: $C_{21}H_{26}N_2O_3 \bullet HCl$
Molecular Weight: 390.9
CAS Number: 65-19-0
Melting Point: 288-290 °C

Yohimbine hydrochloride is an α_2-adrenergic receptor antagonist. It blocks the central α_2-adrenegic receptors in the brain, thus preventing and reducing the effects of xylazine, an α_2-adrenergic agonist. The sedative effects and respiratory depression that accompany xylazine administration are both antagonized and reversed by yohimbine. Yohimbine hydrochloride also produces an antidiuretic effect, and increases heart rate and blood pressure.[2]

Precautions and Disclaimer

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

Preparation Instructions

Yohimbine hydrochloride is soluble in water (approximately 8 mg/ml) and in ethanol (approximately 2.5 mg/ml). Aqueous solutions have a neutral pH.[3]

Storage/Stability

Solutions should be protected from light.

References

1. Handbook of Clinical Veterinary Pharmacology, D. W. Upson ed., 2nd ed., p. 217 (1985).
2. Martindale The Extra Pharmacopoeia, 30th ed., Reynolds, J. E. F., ed., The Pharmaceutical Press (London, England: 1993), p. 1428
3. The Merck Index, 13th ed. Entry# 10157.
4. Becker, C., et al., Prevention by 5-HT1A receptor agonists of restraint stress- and yohimbine-induced release of cholecystokinin in the frontal cortex of the freely moving rat. Neuropharmacology, **38(4)**, 525-532 (1999).
5. Zhang, W., and Roomans, G.M., A yohimbine-dependent, UK14,304 induced ion transient in HT29 cells studied by X-ray microanalysis. Scanning Microsc., **10(1)**, 293-298, 298-299 (1996).

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