PRODUCT INFORMATION

Prazosin (hydrochloride)
Item No. 15023

CAS Registry No.: 19237-84-4
Formal Name: [4-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-piperazinyl]-2-furanyl-methanone, monohydrochloride
Synonyms: Adversuten, CP 12,299-1, NSC 292810
MF: C_{19}H_{21}N_{5}O_{4} • HCl
FW: 419.9
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}}: 214, 247, 330, 342 \) nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Prazosin (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the prazosin (hydrochloride) in the solvent of choice. Prazosin (hydrochloride) is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 0.1 mg/ml.

Description

Prazosin is an antihypertensive agent that blocks postsynaptic \( \alpha_1 \)-adrenergic receptors in the periphery (IC_{50} = 0.20 nM in dog aorta) and is capable of crossing the blood-brain barrier, decreasing sympathetic outflow in the brain (IC_{50} = 1.7 nM in rat brain).\(^1,2\) Prazosin is also a potent antagonist at the melatonin MT_3 receptor (K_{i} = 10.2 - 12.4 nM; IC_{50} = 7.8 nM in hamster).\(^3,4\)

References