Clonidine hydrochloride

Product Number  C 7897
Storage Temperature  2-8 °C

Product Description
Molecular Formula:  C₉H₉Cl₂N₃ • HCl
Molecular Weight:  266.6
CAS Number:  4205-91-8
pKₐ:  8.2¹

Clonidine is an α₂-adrenergic agonist that has been used clinically as an antihypertensive³ and an analgesic.⁴ It is an inhibitor of gastrointestinal motility that blocks α₂ sites, which leads to an adrenergic response.² Clonidine reduces sympathetic stimulation, which leads to lowering of blood pressure and a slowing of heart rate.⁵ It has been generally proposed that clonidine and related antihypertensives act through a group of receptors called the imidazoline receptors.³⁶⁷⁸

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

Preparation Instructions
Clonidine hydrochloride is soluble in water (50 mg/ml), with heat as needed, yielding a clear to slightly hazy colorless solution. A solution of 50 mg/ml clonidine in water has a pH of 4.0-5.0. It is also soluble in dehydrated alcohol and slightly soluble in chloroform.⁷

Storage/Stability
Solutions of clonidine may be sterilized by autoclaving.

Clonidine should be stored protected from light and in airtight containers.⁶

References