

Moxonidine (hydrochloride)

Catalog No: tcsc2440



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

75536-04-8

Formula:

$C_9H_{13}Cl_2N_5O$

Pathway:

GPCR/G Protein;Neuronal Signaling

Target:

Imidazoline Receptor;Imidazoline Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

BDF5895 hydrochloride

Observed Molecular Weight:

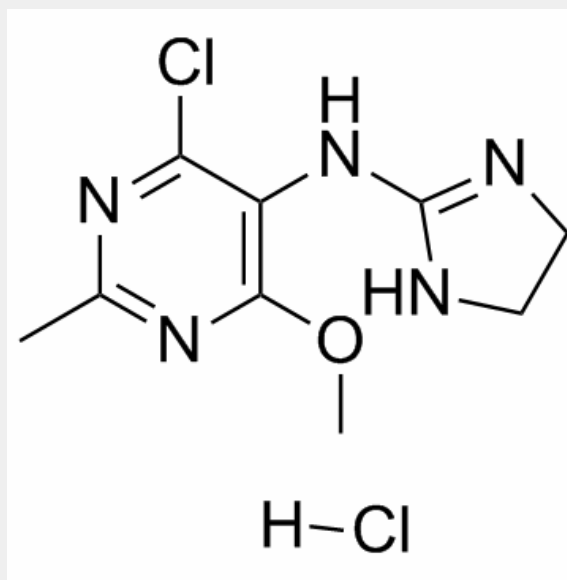
278.14

Product Description

Moxonidine Hydrochloride is a selective agonist at the imidazoline receptor subtype 1, used as antihypertensive agent.

Target: I1-R

Moxonidine Hydrochloride is a centrally acting antihypertensive agent. Mixed Nischarin (I1 imidazoline receptor) and α 2-AR (adrenergic) agonist; displays 40-fold higher affinity for I1 receptors versus α 2-adrenoceptors. Moxonidine reduced stimulated NE overflow (log EC50: -6.15 \pm 0.14). AGN192403, a selective ligand at I1-R, had no influence on the dose-response curve of moxonidine (log EC50: -6.01 \pm 0.25) [1]. The hypotensive and bradycardic actions of moxonidine but not clonidine are mediated through imidazoline receptors and are dependent on intact noradrenergic pathways within the RVLM. Furthermore, the noradrenergic innervation may be associated with a 42 kDa imidazoline receptor protein [2].



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