



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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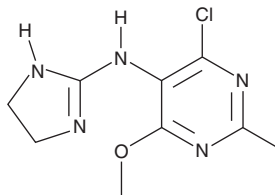
# PRODUCT INFORMATION



## Moxonidine

Item No. 25639

**CAS Registry No.:** 75438-57-2  
**Formal Name:** 4-chloro-N-(4,5-dihydro-1H-imidazol-2-yl)-6-methoxy-2-methyl-5-pyrimidinamine  
**Synonym:** LY326869  
**MF:** C<sub>9</sub>H<sub>12</sub>ClN<sub>5</sub>O  
**FW:** 241.7  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 222, 256 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

Moxonidine is supplied as a crystalline solid. A stock solution may be made by dissolving the moxonidine in the solvent of choice. Moxonidine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of moxonidine in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of moxonidine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of moxonidine in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Moxonidine is an imidazoline 1 (I<sub>1</sub>) receptor agonist (K<sub>i</sub> = 56 nM in a radioligand binding assay).<sup>1</sup> It is also an agonist of the α<sub>2A</sub>-adrenergic receptor (α<sub>2A</sub>-AR; K<sub>i</sub> = 150 nM in a radioligand binding assay). It is selective for I<sub>1</sub> and α<sub>2A</sub>-AR receptors over α<sub>1</sub>-, α<sub>2B</sub>-, and α<sub>2C</sub>-ARs (K<sub>i</sub>s = >30,000, 1,000, and 2,000 nM, respectively). Moxonidine decreases mean arterial pressure in spontaneously hypertensive rats when administered at a dose of 0.2 nmol injected into the rostral ventrolateral medulla oblongata (RVLM).<sup>2</sup> It also reduces blood pressure in cynomolgus monkeys when administered at a dose of 167 μg/kg.<sup>1</sup>

### References

1. Munk, S.A., Lai, R.K., Burke, J.E., *et al.* Synthesis and pharmacologic evaluation of 2-endo-amino-3-exo-isopropylbicyclo[2.2.1]heptane: A potent imidazoline<sub>1</sub> receptor specific agent. *J. Med. Chem.* **39(6)**, 1193-1195 (1996).
2. Ernsberger, P., Haxhiu, M.A., Graff, L.M., *et al.* A novel mechanism of action for hypertension control: Moxonidine as a selective I<sub>1</sub>-imidazoline agonist. *Cardiovasc. Drugs Ther.* **8(Suppl 1)**, 27-41 (1994).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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