Imidazoline receptors are the primary receptors on which clonidine and other imidazolines act. There are three classes of imidazoline receptors: I1 receptor – mediates the sympatho-inhibitory actions of imidazolines to lower blood pressure, (NISCH or IRAS, imidazoline receptor antisera selected), I2 receptor - an allosteric binding site of monoamine oxidase and is involved in pain modulation and neuroprotection, I3 receptor - regulates insulin secretion from pancreatic beta cells. Activated I1-imidazoline receptors trigger the hydrolysis of phosphatidylcholine into DAG. Elevated DAG levels in turn trigger the synthesis of second messengers arachidonic acid and downstream eicosanoids. In addition, the sodium-hydrogen antiporter is inhibited, and enzymes of catecholamine synthesis are induced. The I1-imidazoline receptor may belong to the neurocytokine receptor family, since its signaling pathways are similar to those of interleukins.
Imidazoline Receptor Inhibitors & Modulators

Agmatine sulfate

**Cat. No.: HY-101238**

**Bioactivity:** Agmatine sulfate exerts modulatory action at multiple molecular targets, such as neurotransmitter systems, ion channels and nitric oxide synthesis. It is an endogenous agonist at imidazoline receptor and a NO synthase inhibitor.

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 100 mg, 500 mg, 1 g

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Allantoin

(5-Ureidohydantoin)

**Cat. No.: HY-N0543**

**Bioactivity:** Allantoin is a skin conditioning agent that promotes healthy skin, stimulates new and healthy tissue growth.

**Purity:** 98.36%

**Clinical Data:** Launching

**Size:** 10mM x 1mL in DMSO, 100 mg

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Moxonidine

(BDF5895)

**Cat. No.: HY-80374**

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

**Purity:** 99.91%

**Clinical Data:** Launching

**Size:** 10mM x 1mL in DMSO, 5 mg, 50 mg, 100 mg

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Moxonidine hydrochloride

(BDF5895 hydrochloride)

**Cat. No.: HY-80374A**

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

**Purity:** >98%

**Clinical Data:** Launching

**Size:** 10 mg, 50 mg, 100 mg