

**METRAZOLINE**

Oxalate salt

Product Number **M 5685**

Storage Temperature: RT

Cas #: 221225-04-3

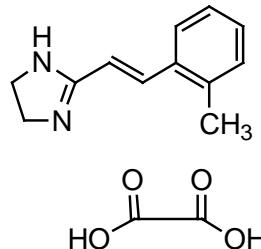
Chemical name: 1H-Imidazole, 4,5-dihydro-2-[(1E)-2-(2-methylphenyl)ethenyl]-ethandoate (1:1)

**Product Description**

Appearance: White solid

Molecular Formula: C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>•C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>

Formula Weight: 276.28



- Potent and selective imidazoline binding site ligand

Although the molecular structure of the imidazoline binding sites remains to be elucidated, there is much indirect evidence to suggest the existence of two subpopulations of the sites referred to as Imidazoline Type 1 (I<sub>1</sub>) and Imidazoline Type 2 (I<sub>2</sub>). I<sub>1</sub> binding sites are thought to couple through a G protein to the enzyme phospholipase C. This coupling generates

**Product Information**

diacylglycerol, phosphocholine, arachidonic acid and eicosinoids as second messengers.<sup>1</sup> I<sub>2</sub> binding sites are not coupled to G proteins and may modulate cellular activity by affecting both potassium channel function and monoamine oxidase activity.<sup>1</sup>

Metrazoline is a potent and selective imidazoline site ligand with an affinity in the nanomolar range. In binding assays performed in rat liver using [<sup>3</sup>H] idazoxan, metrazoline displayed a pK<sub>i</sub> value of 9.55.<sup>2</sup> This ligand has great selectivity for imidazoline binding sites compared with its activity at α<sub>2</sub>-adrenoceptors.<sup>2</sup>

**Preparation Instructions**

Soluble in water: 16 mg/ml.

**Storage/Stability**

Store tightly sealed at room temperature.

**References**

1. Farsang, C., and Kapocsi, J., *Brain Res. Bull.*, **49**, 317-331 (1999).
2. Polidori, C. et al., *Eur. J. Pharm.*, **392**, 41-19 (2000).

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