

**Product Name:** Phentolamine Mesylate

**Catalog No.:** 6431

**Batch No.:** 1

CAS Number: 65-28-1

IUPAC Name: 3-[[[4,5-Dihydro-1*H*-imidazol-2-yl)methyl](4-methylphenyl)amino]phenol methanesulfonate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O·CH<sub>4</sub>O<sub>3</sub>S

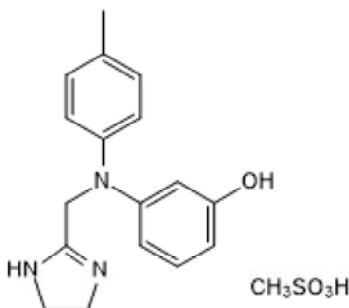
**Batch Molecular Weight:** 377.46

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.28	6.14	11.13
Found	57.26	6.17	11.1

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 3-[[[(4,5-Dihydro-1H-imidazol-2-yl)methyl](4-methylphenyl)amino]phenol]methanesulfonate

**Description:**

Non-selective adrenergic  $\alpha$  receptor antagonist (pKB = 8.07). Intravenous injection causes hypotension and tachycardia in rats. Intraperitoneal injection in mice increases plasma FGF21 levels.

**Physical and Chemical Properties:**

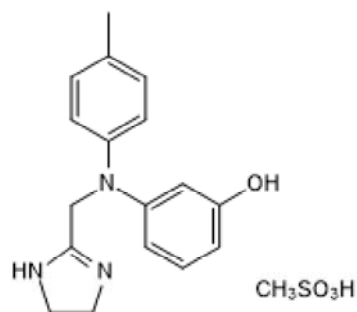
Batch Molecular Formula: C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O.CH<sub>4</sub>O<sub>3</sub>S

Batch Molecular Weight: 377.46

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Fioretti et al** (2017) Renal and femoral venous blood flows are regulated by different mechanisms dependent on  $\alpha$ -adrenergic receptor subtypes and nitric oxide in anesthetized rats. *Vascul.Pharmacol.* **99** 53. PMID: 28986330.

**Nonogaki & Kaji** (2017)  $\alpha$ 1-adrenergic receptor downregulated hepatic FGF21 production and circulating FGF21 levels in mice. *Neurosci.Lett.* **18** 35. PMID: 27939978.

**Liu & Coupar** (1996) Evidence for functional alpha 2D-adrenoceptors in the rat intestine. *Br.J.Pharmacol.* **117** 787. PMID: 8851491.

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