

Phentolamine (mesylate)

Catalog No: tcsc2419



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

65-28-1

Formula:

$C_{18}H_{23}N_3O_4S$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 50 mg/mL (132.46 mM)

Alternative Names:

Phentolamine methanesulfonate

Observed Molecular Weight:

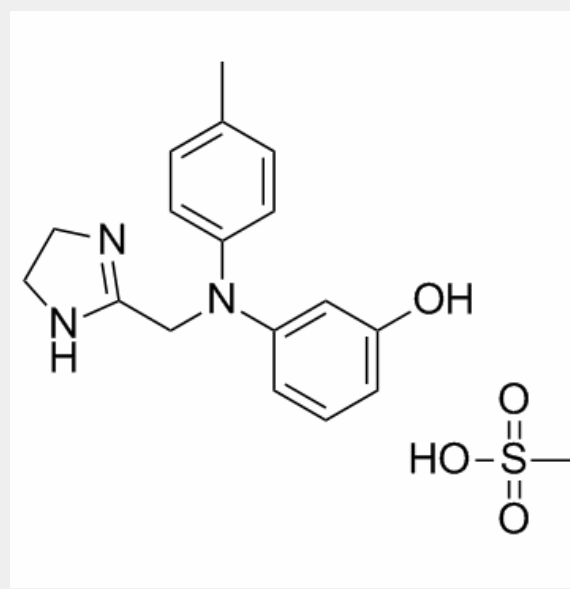
377.46

Product Description

Phentolamine Mesylate is a nonselective alpha-adrenergic antagonist.

Target: Alpha Adrenergic Receptor

Phentolamine Mesylate is a alpha 1- and alpha 2-blocking agent. Phentolamine leads to an increase in FBM by preferentially antagonizing presynaptic alpha 2-adrenoreceptors over postsynaptic alpha 1-adrenoreceptors. This influence of phentolamine on FBM may be secondary to its effect on ECoG. Promotion of LV-ECoG by catecholamines is mediated via an alpha 1-independent mechanism [1]. phentolamine increased catecholamine release by presynaptic alpha 2-blockade, thereby suppressing the autoinhibition of transmitter release. This excess of catecholamines causes a rise of oxygen consumption and vasodilation by beta-adrenergic stimulation. Under beta-blockade, this excess competitively counteracts the postsynaptic vascular alpha-blockade. The combination of pre- and postsynaptic effects invalidates the use of phentolamine in the assessment of alpha-adrenoceptor-mediated vasoconstrictor tone [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!