

Mirtazapine

Catalog No: tcsc2398



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

85650-52-8

Formula:

$C_{17}H_{19}N_3$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Org3770;6-Azamianserin

Observed Molecular Weight:

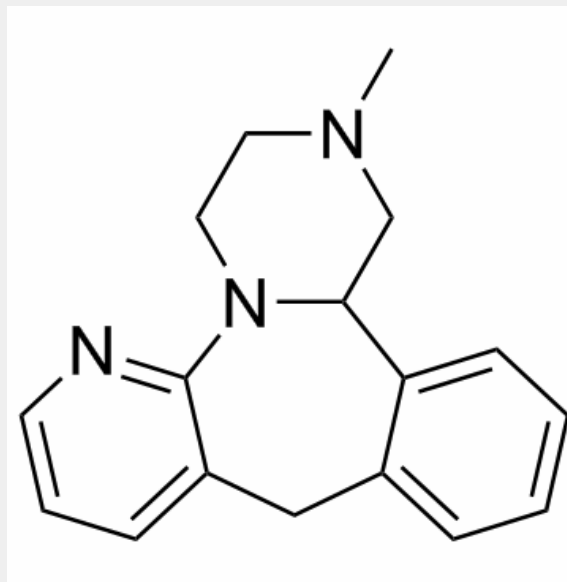
265.35

Product Description

Mirtazapine is a potent tetracyclic antidepressant.

Target: 5-HT Receptor

Mirtazapine, the novel antidepressant, has a dual mode of action. It is a noradrenergic and specific serotonergic antidepressant (NaSSA) that acts by antagonizing the adrenergic α_2 -autoreceptors and α_2 -heteroreceptors as well as by blocking 5-HT₂ and 5-HT₃ receptors [1]. Mirtazapine appears to have a substantial ameliorating effect on hot flushes and perspiration bouts. It is postulated that the 5-HT_{2A} blocking properties of mirtazapine is accounted in the symptomatic relief of hot flushes [2]. After 4-24 weeks of treatment, mirtazapine induced downregulation of platelet α_2A -adrenoceptors (up to 34%) and α phai proteins (up to 28%), and the upregulation of GRK 2 (up to 30%). Treatment with mirtazapine reversed this abnormality and induced downregulation of α_2A -adrenoceptor/ α phai complex [3].



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