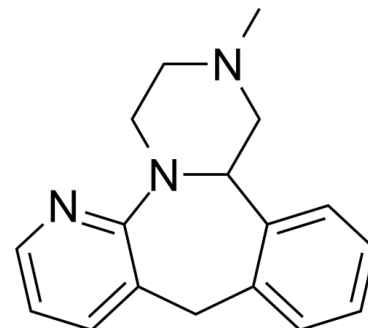


Data Sheet

| | |
|---------------------------|---|
| Product Name: | Mirtazapine |
| Cat. No.: | CS-2398 |
| CAS No.: | 85650-52-8 |
| Molecular Formula: | C ₁₇ H ₁₉ N ₃ |
| Molecular Weight: | 265.35 |
| Target: | 5-HT Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Solubility: | H ₂ O : < 0.1 mg/mL (insoluble); DMSO : 50 mg/mL (188.43 mM); Need ultrasonic |



BIOLOGICAL ACTIVITY:

Mirtazapine is a **5-HT receptor** inhibitor. Mirtazapine is a potent and orally active noradrenergic and specific serotonergic antidepressant (NaSSA) agent by blocking 5-HT₂ and 5-HT₃ receptors^[1].

References:

- [1]. Anttila, S.A. and E.V. Leinonen, A review of the pharmacological and clinical profile of mirtazapine. *CNS Drug Rev*, 2001. 7(3): p. 249-64.
- [2]. Waldinger, M.D., H.H. Berendsen, and D.H. Schweitzer, Treatment of hot flushes with mirtazapine: four case reports. *Maturitas*, 2000. 36(3): p. 165-8.
- [3]. Garcia-Sevilla, J.A., et al., Regulation of platelet alpha 2A-adrenoceptors, Gi proteins and receptor kinases in major depression: effects of mirtazapine treatment. *Neuropsychopharmacology*, 2004. 29(3): p. 580-8.

CAIndexNames:

Pyrazino[2,1-a]pyrido[2,3-c][2]benzazepine, 1,2,3,4,10,14b-hexahydro-2-methyl-

SMILES:

CN1CC2C3=CC=CC=C3CC4=CC=CN=C4N2CC1

Caution: Product has not been fully validated for medical applications. For research use only.

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