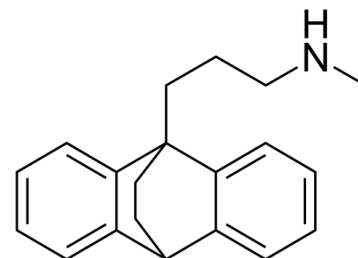


Data Sheet

| | |
|---------------------------|-------------------------------------|
| Product Name: | Maprotiline (hydrochloride) |
| Cat. No.: | CS-2553 |
| CAS No.: | 10347-81-6 |
| Molecular Formula: | C ₂₀ H ₂₄ ClN |
| Molecular Weight: | 313.86 |
| Target: | Autophagy |
| Pathway: | Autophagy |
| Solubility: | DMSO : ≥ 37 mg/mL (117.89 mM) |



HCl

BIOLOGICAL ACTIVITY:

Maprotiline hydrochloride is a selective noradrenalin re-uptake inhibitor and a tetracyclic antidepressant. Target: Others Maprotiline (sold as Deprilept, Ludiomil, Psymion) is a tetracyclic antidepressant (TeCA). However, Maprotiline's fourth ring is spurious, as formed by a bridge across the central tricyclic ring. It is a strong norepinephrine reuptake inhibitor with only weak effects on serotonin and dopamine reuptake. It exerts strong blocking effect at H₁ receptors, moderate at 5-HT₂ and alpha₁ and weak blocking effect at D₂ and mACh postsynaptic receptors [1, 2].

References:

[1]. Peng, W.H., et al., Berberine produces antidepressant-like effects in the forced swim test and in the tail suspension test in mice. *Life Sci*, 2007. 81(11): p. 933-8.

[2]. <http://en.wikipedia.org/wiki/Maprotiline>

CAIndexNames:

9,10-Ethanoanthracene-9(10H)-propanamine, N-methyl-, hydrochloride (1:1)

SMILES:

CNCCC1(CC2)C3=CC=CC=C3C2C4=CC=CC=C14.Cl

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

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