

Product Data Sheet

Product Name: Maprotiline HCl

Cat. No.: GC12376

Chemical Properties

Cas. No. 10347-81-6

Chemical Name 3-(9,10-dihydro-9,10-ethanoanthracen-9-yl)-N-methylpropan-1-amine hydrochloride

SMILES CN(C)CCCC12C3=CC=CC=C3C4=CC=CC=C4C5=CC=CC=C5C6=CC=CC=C6C1=C2C3=C4

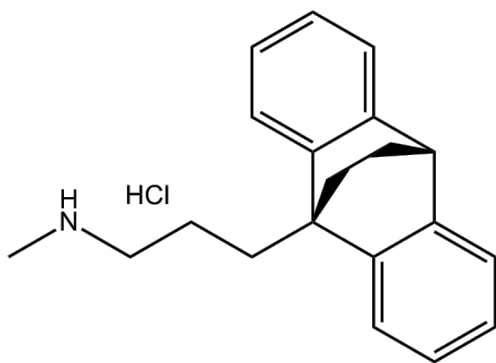
Formula $C_{20}H_{23}N \cdot HCl$ M.Wt 313.86

Solubility $\geq 13.95\text{mg/mL}$ in DMSO Storage Store at RT

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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].

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

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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>

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