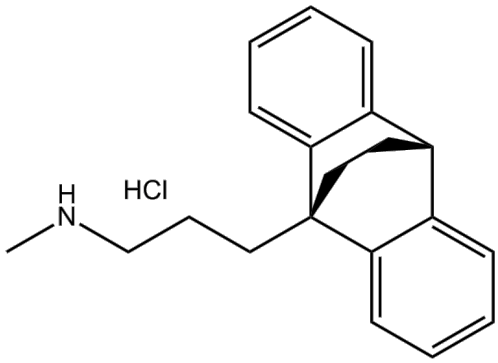
Product Data Sheet

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	Cl[H].[H]C12C([H])([H])C([H])([H])C(C3=C([H])C([H])=C([H])C([H])=C23)(C([H])([H])C([H])([H])C([H])([H])N([H])C([H])([H])[H])C4=C([H])C([H])=C([H])C([H])=C14		
Formula	$C_{20}H_{23}N.HCl$	M.Wt	313.86
Solubility	≥ 13.95mg/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: OthersMaprotiline (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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