

**Product Name** : Maprotiline hydrochloride

**Synonyms** : Depilept; Ludiomil

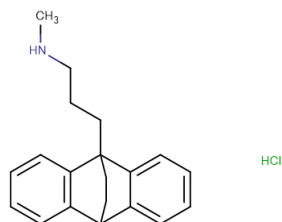
**Cat No.** : M10171

**CAS Number** : 10347-81-6

**Molecular Formula** : C<sub>20</sub>H<sub>24</sub>ClN

**Formula Weight** : 313.86

**Chemical Name** : 9-(γ-Methylaminopropyl)-9,10-dihydro-9,10-ethanoanthracene hydrochloride



**Description** : Maprotiline is a tetracyclic antidepressant with similar pharmacological properties to tricyclic antidepressants (TCAs). Similar to TCAs, maprotiline inhibits neuronal norepinephrine reuptake, possesses some anticholinergic activity, and does not affect monoamine oxidase activity. It differs from TCAs in that it does not appear to block serotonin reuptake. Maprotiline may be used to treat depressive affective disorders, including dysthymic disorder (depressive neurosis) and major depressive disorder. Maprotiline is effective at reducing symptoms of anxiety associated with depression.

**Pathway** : Endocrinology/Hormones

**Target** : 5-HT Receptor

**Receptor** : 5-HT; mAChR; Adrenergic Receptor; H1 receptor; Noradrenaline transporter (Sodium-dependent)

**Solubility** : Ethanol: 24 mg/mL (76.46 mM); DMSO: 63 mg/mL (200.72 mM)

**SMILES** : CNCCCC1(CC2)C3=CC=CC=C3C2C4=C1C=CC=C4.Cl

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Buckley NA, McManus PR. Drug Saf. 1998 May;18(5):369-8