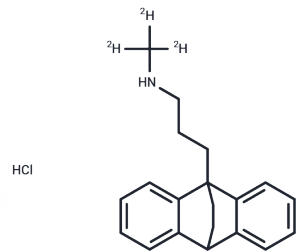


Maprotiline-D3 hydrochloride

Chemical Properties

CAS No. :	1329496-63-0
Formula:	C ₂₀ H ₂₁ D ₃ ClN
Molecular Weight:	316.8873
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Maprotiline-D3 hydrochloride is intended for use as an internal standard for the quantification of maprotiline by GC- or LC-MS. Maprotiline hydrochloride (T0172) is a tricyclic antidepressant. It binds to the norepinephrine transporter (NET) and is selective for NET over the serotonin and dopamine transporters. Maprotiline also binds to the serotonin (5-HT) receptor subtype 5-HT _{2A} , as well as histamine H ₁ , muscarinic acetylcholine, α ₁ -adrenergic, and dopamine D ₂ receptors. In vivo, maprotiline inhibits norepinephrine reuptake in rat brain and peripheral tissues. It reduces isolation-induced aggressive behavior and inhibits electrical foot-shock stimulation-induced belligerence in mice when administered at doses ranging from 3 to 10 mg/kg. Maprotiline also reduces aggressive behavior in rhesus monkeys housed in groups. Formulations containing maprotiline have been used in the treatment of depression and anxiety.
Targets(IC ₅₀)	Autophagy

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1557 mL	15.7783 mL	31.5567 mL
5 mM	0.6311 mL	3.1557 mL	6.3113 mL
10 mM	0.3156 mL	1.5778 mL	3.1557 mL
50 mM	0.0631 mL	0.3156 mL	0.6311 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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