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## DATASHEET

(-)-MK 801 maleate (Less active enantiomer of (+)-MK 801)

### Product overview

<b>Name</b>	(-)-MK 801 maleate (Less active enantiomer of (+)-MK 801)
<b>Cat No</b>	HB0003
<b>Alternative names</b>	Dizocilpine maleate, Dizocilpine
<b>Biological action</b>	Antagonist
<b>Purity</b>	>99%
<b>Description</b>	Less active enantiomer of (+)-MK 801. NMDA receptor antagonist.

### Images



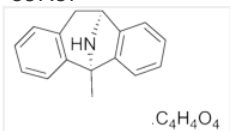
### Biological Data

<b>Biological description</b>	NMDA receptor antagonist which is the less active enantiomer of (+)-MK 801 maleate. It shows approximately 10-fold reduction in potency compared to (+)-MK 801 maleate.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in water (25mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(5 <i>R</i> ,10 <i>S</i> )-(-)-5-Methyl-10,11-dihydro-5 <i>H</i> -dibenzo[ <i>a,d</i> ]cyclohepten-5,10-imine maleate
<b>Molecular Weight</b>	337.37
<b>Chemical structure</b>	 <chem>Cc1ccc2c(c1)nc3ccccc32.C(=O)C(=O)O</chem> .C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>15</sub> N.C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
<b>CAS Number</b>	121917-57-5
<b>PubChem identifier</b>	16219612

<b>SMILES</b>	<chem>O=C(O)/C=CC(=O)O.C[C@]42N[C@@H](Cc1cccc12)c3cccc34</chem>
<b>Source</b>	Synthetic
<b>InChi</b>	InChI=1S/C16H15N.C4H4O4/c1-16-13-8-4-2-6-11(13)10-15(17-16)12-7-3-5-9-14(12)16;5-3(6)1-2-4(7)8/h2-9,15,17H,10H2,1H3;1-2H,(H,5,6)(H,7,8)/b;2-1-t15-,16+;/m0./s1
<b>InChiKey</b>	QLTXKCWMEZIHBJ-FWHYQZOBNS-N
<b>Appearance</b>	White solid

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## References

### Effects of MK-801 stereoisomers on schedule-controlled behavior in rats.

Genovese RF *et al* (1991) *Psychopharmacology (Berl)* 105(4)

**PubMedID** [1771215](#)

### The effects of dizocilpine maleate (MK-801), an antagonist of the N-methyl-D-aspartate receptor, on neurologic recovery and histopathology following complete cerebral ischemia in primates.

Lanier WL *et al* (1990) *J Cereb Blood Flow Metab* 10(2)

**PubMedID** [2154509](#)

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