

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

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

Product overview

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

Images



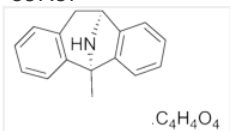
Biological Data

Biological description	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

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

Chemical Data

Chemical name	(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
Molecular Weight	337.37
Chemical structure	 <chem>Cc1ccc2c(c1)nc3ccccc32.C(=O)(O)C(=O)O</chem>
Molecular Formula	C ₁₆ H ₁₅ N.C ₄ H ₄ O ₄
CAS Number	121917-57-5
PubChem identifier	16219612

SMILES	<chem>O=C(O)/C=CC(=O)O.C[C@]42N[C@@H](Cc1cccc12)c3cccc34</chem>
Source	Synthetic
InChi	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
InChiKey	QLTXKCWMEZIHBJ-FWHYQZOBSA-N
Appearance	White solid

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](#)
