

Product Name: (-)-MK 801 maleate

Catalog No.: 0955

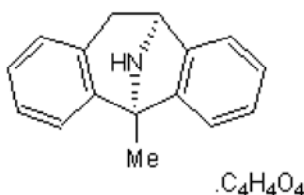
Batch No.: 2

CAS Number: 121917-57-5

IUPAC Name: (5*R*,10*S*)-(-)-5-Methyl-10,11-dihydro-5*H*-dibenzo[*a,d*]cyclohepten-5,10-imine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅N.C₄H₄O₄
Batch Molecular Weight: 337.37
Physical Appearance: White solid
Solubility: water to 25 mM with gentle warming
 physiological saline to 25 mM with gentle warming
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (10% MeOH/DCM)
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -118.2 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	71.2	5.68	4.15
Found	71.26	5.74	3.91

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 121917-57-5

IUPAC Name: (5R,10S)-(-)-5-Methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine maleate

Description:

(-)-MK 801 maleate is a less active enantiomer (10-fold less potent in behavioral studies) than (+)-MK 801 maleate. (+)-enantiomer also available.

Physical and Chemical Properties:

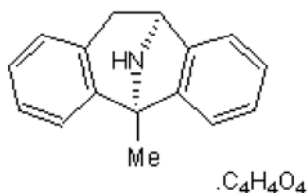
Batch Molecular Formula: C₁₆H₁₅N.C₄H₄O₄

Batch Molecular Weight: 337.37

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 mM with gentle warming
physiological saline to 25 mM with gentle warming
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Genovese and Lu (1991) Effects of MK-801 stereoisomers on schedule-controlled behavior in rats. *Psychopharmacology*. **105** 477. PMID: 1771215.

Thompson et al (1990) Synthesis and pharmacological evaluation of a series of dibenzo[a,d]cycloalkenimines as N-MthD.-aspartate antagonists. *J.Med.Chem.* **33** 789. PMID: 1688947.

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