Product Name: (+)-MK 801 maleate
Catalog No.: 0924  Batch No.: 12
CAS Number: 77086-22-7  EC Number: 278-614-5
IUPAC Name: (5S,10R)-(+-)5-Methyl-10,11-dihydro-5H-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
- Ethanol to 50 mM
- DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 100% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]D = +106.2 (Concentration = 1, Solvent = Methanol)
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>71.2</td>
<td>71.16</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.68</td>
<td>5.71</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>4.15</td>
<td>4.3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>(+)-MK 801 maleate</th>
<th>Catalog No.: 0924</th>
<th>Batch No.: 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number:</td>
<td>77086-22-7</td>
<td>EC Number: 278-614-5</td>
<td></td>
</tr>
<tr>
<td>IUPAC Name:</td>
<td>(5S,10R)-(+) 5-Methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine maleate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
A potent, selective and non-competitive NMDA receptor antagonist. Acts by binding to a site located within the NMDA associated ion channel and thus prevents Ca\(^{2+}\) flux. An effective anti-ischemic agent in several animal models. Available as part of the Mixed NMDA Receptor Tocriset™. (-)-enantiomer also available.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C\(_{16}\)H\(_{12}\)N.C\(_2\)H\(_4\)O\(_4\)
- **Batch Molecular Weight:** 337.37
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%
- **Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- Water to 25 mM
- Ethanol to 50 mM
- 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:**

---

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

**bio-techno.com**
- info@bio-techno.com
- techsupport@bio-techno.com

**North America**
- Tel: (800) 343 7475

**China**
- info.cn@bio-techno.com
- Tel: +86 (21) 52380373

**Europe Middle East Africa**
- Tel: +44 (0)1235 529449

**Rest of World**
- www.tocris.com/distributors
- Tel:+1 612 379 2956