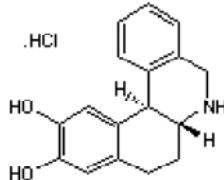


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** Dihydrexidine hydrochloride**Catalog No.:** 0884**Batch No.:** 7

CAS Number: 137417-08-4

IUPAC Name: (±)-trans-10,11-Dihydroxy-5,6,6a,7,8,12b-hexahydrobenzo[a]phenanthridine hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>NO<sub>2</sub>.HCl.½H<sub>2</sub>O**Batch Molecular Weight:** 312.8**Physical Appearance:** Light yellow solid**Solubility:** water to 10 mM  
DMSO to 50 mM**Storage:** Desiccate at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****Melting Point:** At 295°C(Dec)**HPLC:** Shows 100% purity**<sup>1</sup>H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 65.28 6.12 4.48 0 0 0

Found 65.09 5.98 4.36 0 0 0

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

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# Product Information

[www.tocris.com](http://www.tocris.com)
**Product Name:** Dihydrexidine hydrochloride

**Catalog No.:** 0884

**Batch No.:** 7

**CAS Number:** 137417-08-4

**IUPAC Name:** ( $\pm$ )-*trans*-10,11-Dihydroxy-5,6,6a,7,8,12b-hexahydrobenzo[a]phenanthridine hydrochloride

**Description:**

Dihydrexidine hydrochloride is a potent, full efficacy dopamine D<sub>1</sub> agonist which shows no agonist activity at peripheral D<sub>2</sub> receptors or adrenoceptors at doses which cause maximal stimulation of D<sub>1</sub> sites. The compound appears to be fully bioavailable in brain and exhibits profound antiparkinsonism effects *in vivo*.

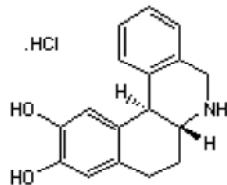
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>NO<sub>2</sub>.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 312.8

Physical Appearance: Light yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**

**References:**

**Kholi et al** (1993) Dihydrexidine: a new potent peripheral DA D<sub>1</sub> receptor agonist. *Eur.J.Pharmacol.* **235** 31. PMID: 8100195.

**Taylor et al** (1991) Dihydrexidine, a full DA D<sub>1</sub> agonist, reduces MPTP-induced parkinsonism in monkeys. *Eur.J.Pharmacol.* **199** 389. PMID: 1680717.

**Brewster et al** (1990) *Trans*-10,11-dihydroxy-5,6,6a,7,8,12b-hexahydrobenzo[a]phenanthridine: a highly potent selective DA D<sub>1</sub> full agonist. *J.Med.Chem.* **33** 1756. PMID: 1971308.

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 10 mM  
DMSO to 50 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.

**Licensing Information:**

Sold under license, US Patent 5,047,536

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