Certificate of Analysis

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Print Date: Jul 26th 2022

Product Name: Dihydrexidine hydrochloride

Catalog No.: 0884 Batch No.: 12

CAS Number: IUPAC Name:

TOCR

a biotechne

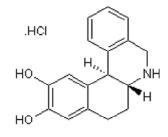
137417-08-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₇H₁₇NO₂.HCl.¼H₂O 308.29 Pale yellow solid water to 10 mM DMSO to 50 mM Desiccate at +4°C





2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.0 % purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen			
Theoretical	66.23	6.05	4.54	
Found	66.49	5.97	4.45	

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

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TOCRIS a biotechne brand

Product Information

Print Date: Jul 26th 2022

12

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Product Name: Dihydrexidine hydrochloride

CAS Number: 137417-08-4

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

Description:

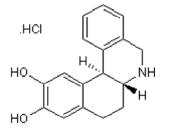
Dihydrexidine hydrochloride is an a potent, full efficacy dopamine D_1 agonist which shows no agonist activity at peripheral D_2 receptors or adrenoceptors at doses which cause maximal stimulation of D_1 sites. The compound appears to be fully bioavailable in brain and exhibits profound antiparkinsonism effects in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₁₇NO₂.HCl.¹/₄H₂O Batch Molecular Weight: 308.29 Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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 $45-60^{\circ}C$ water bath).

Catalog No.: 0884

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

References:

Kholi *et al* (1993) Dihydrexidine: a new potent peripheral DA D₁ receptor agonist. Eur.J.Pharmacol. **235** 31. PMID: 8100195. **Taylor** *et al* (1991) Dihydrexidine, a full DA D₁ 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 D₁ full agonist. J.Med.Chem. **33** 1756. PMID: 1971308.

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