# TOCRIS a biotechne brand

## **Certificate of Analysis**

## www.tocris.com

Print Date: Dec 23rd 2021

### Product Name: Tranylcypromine hydrochloride

Catalog No.: 3852 Batch No.: 3

CAS Number:1986-47-6IUPAC Name:(±)-trans-2-Phenylcyclopropylamine hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C<sub>9</sub>H<sub>11</sub>N.HCl 169.65 White solid water to 100 mM DMSO to 100 mM Desiccate at RT

Storage: **Batch Molecular Structure:** 

NH2 HCI

### 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 98.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 63.72 7.13 8.26 Found 63.42 6.97 8.29

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

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## **Product Information**

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### **Description:**

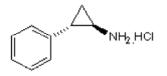
Tranylcypromine hydrochloride is an irreversible inhibitor of lysine-specific demethylase 1 (LSD1/BHC110) and monoamine oxidase (MAO). Inhibits histone demethylation. In combination with CHIR 99021 (Cat. No. 4423), enables reprogramming of mouse embryonic fibroblasts transduced by only two factors, Oct4 and KIf4, into induced pluripotent stem (iPS) cells. For more information about how Tranylcypromine hydrochloride may be used, see our protocol: Highly Efficient Generation of CiPSCs from MEFs Please see product specific page on www.tocris.com for full description.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>9</sub>H<sub>11</sub>N.HCl Batch Molecular Weight: 169.65 Physical Appearance: White solid

Minimum Purity: ≥98%

**Batch Molecular Structure:** 



### Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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  $45-60^{\circ}C$  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:**

Li et al (2009) Generation of human-induced pluripotent stem cells in the absence of exogenous Sox2. Stem Cells 27 2992. PMID: 19839055.

Schmidt and McCafferty (2007) *trans*-2-Phenylcyclopropylamine is a mechanism-based inactivator of the histone demethylase LSD1. Biochemistry **46** 4408. PMID: 17367163.

Lee et al (2006) Histone H3 lysine 4 demethylation is a target of nonselective antidepressive medications. Chem.Biol. 13 563. PMID: 16793513.

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