Product Name: Tranylecypromine hydrochloride
Catalog No.: 3852
Batch No.: 3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂H₁₁N.HCl
Batch Molecular Weight: 169.65
Physical Appearance: White solid
Solubility:
  - water to 100 mM
  - DMSO to 100 mM
Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC:
  - Shows 99.7% purity

¹H NMR:
  - Consistent with structure

Mass Spectrum:
  - Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<td>Theoretical</td>
<td>63.72</td>
<td>7.13</td>
<td>8.26</td>
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<td>63.42</td>
<td>6.97</td>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

Product Name: Tranylcypromine hydrochloride
Catalog No.: 3852 Batch No.: 3
CAS Number: 1986-47-6
IUPAC Name: (±)-trans-2-Phenylcyclopropylamine hydrochloride

Description:
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 Klf4, into induced pluripotent stem (iPS) cells.

Physical and Chemical Properties:
- Batch Molecular Formula: C₁₀H₁₁N.HCl
- Batch Molecular Weight: 169.65
- Physical Appearance: White solid

Minimum Purity: >98%

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°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:
