Certificate of Analysis

Thioridazine hydrochloride Product Name:

130-61-0

EC Number: 204-992-8

10-[2-(1-Methyl-2-piperidinyl)ethyl]-2-(methylthio)-10H-phenothiazine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_{21}H_{26}N_2S_2.HCI$ 407.04 White solid water to 75 mM

Storage: **Batch Molecular Structure:**

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 100% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 61.97 6.69 6.88

6.71

6.82

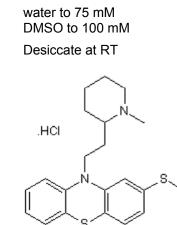
61.62

Found

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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CAS Number:

IUPAC Name:

Catalog No.: 3070 Batch No.: 2

TOCRIS a biotechne brand

Product Information

www.tocris.com

Print Date: Oct 14th 2020

Batch No.: 2

Product Name: Thioridazine hydrochloride

CAS Number: 130-61-0

IUPAC Name: 10-[2-(1-Methyl-2-piperidinyl)ethyl]-2-(methylthio)-10H-phenothiazine hydrochloride

Description:

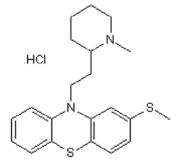
Dopamine receptor antagonist that displays antipsychotic activity. Exhibits anticancer activity in cervical, endometrial and breast cancer cells; triggers apoptosis by targeting the PI 3-K/Akt/mTOR/p70 S6K pathway. Induces G₁ cell cycle arrest. Selective inducer of cancer stem cell (CSC) differentiation.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₆N₂S₂.HCl Batch Molecular Weight: 407.04 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Storage: Desiccate at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 3070

EC Number: 204-992-8

Solubility & Usage Info:

water to 75 mM DMSO to 100 mM CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival

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.

Kang *et al* (2012) Thioridazine induces apoptosis by targeting the PI3K/Akt/mTOR pathway in cervical and endometrial cancer cells. Apoptosis. *Mar 30* Epub ahead of print. PMID: 22460505.

Sachlos et al (2012) Identification of drugs including a DA receptor antagonist that selectively target cancer stem cells. Cell. May 23. Epub ahead of print. PMID: 22632761.

Merck Index 13 9435.

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