and Certificate of Analysis

Print Date: Apr 6th 2022

Batch No.: 1

www.tocris.com

Catalog No.: 4888

Product Name: KHS 101 hydrochloride

CAS Number: 1784282-12-7

OCR

biotechr

IUPAC Name:

Storage:

N4-(2-Methylpropyl)-N²-[(2-phenyl-4-thiazolyl)methyl]-2,4-pyrimidinediamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₁₈H₂₁N₅S.HCl.½H₂O 384.93 Off White solid DMSO to 50 mM ethanol to 50 mM Desiccate at RT

.HCI

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.7 (Chloroform:Methanol (NH4OH) [9:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 56.17 6.02 18.19 Found 56.39 5.89 18.25

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

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Product Information

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IUPAC Name: N4-(2-Methylpropyl)-N²-[(2-phenyl-4-thiazolyl)methyl]-2,4-pyrimidinediamine hydrochloride

Description:

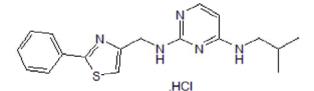
KHS 101 hydrochloride is a selective inducer of neuronal differentiation; induces neuronal differentiation in cultured hippocampal neural progenitor cells (NPCs) by interacting with TACC3 (EC₅₀ ~1 μ M). Suppresses astrocyte formation. Also induces acceleration of neuronal differentiation in the hippocampal dentate gyrus in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₂₁N₅S.HCI.½H₂O Batch Molecular Weight: 384.93 Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info: DMSO to 50 mM ethanol 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).

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:

Wurdak et al (2010) A small molecule accelerates neuronal differentiation in the adult rat. Proc.Natl.Acad.Sci.USA. **107** 16542. PMID: 20823227.

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