Certificate of Analysis

www.tocris.com

Print Date: Oct 18th 2022

Product Name: Miro1 Reducer

CAS Number: 2624336-91-8

N-(3-Fluorophenyl)-N'-[4-[[6-(1H-imidazol-1-yl)-4-pyrimidinyl]amino]phenyl]urea hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

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

C₂₀H₁₆FN₇O.HCl.1½H₂O 452.87 Beige/pale yellow solid DMSO to 100 mM Store at -20°C

Found

HCI

2. ANALYTICAL DATA

HPLC:Shows 9¹H NMR:ConsisterMass Spectrum:ConsisterMicroanalysis:Consister

Shows 97.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Chlorine Theoretical 53.04 4.45 21.65 7.83

4.06

21.62

8.1

52.84

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



IUPAC Name:

Catalog No.: 7091 Batch No.: 1

Daten

TOCRIS a biotechne brand

Product Information

Print Date: Oct 18th 2022

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CAS Number: 2624336-91-8

IUPAC Name:

N-(3-Fluorophenyl)-N'-[4-[[6-(1H-imidazol-1-yl)-4-pyrimidinyl]amino]phenyl]urea hydrochloride

Description:

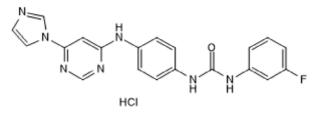
Miro1 Reducer is a promotes proteasomal degradation of Miro1 (mitochondrial Rho GTPase 1). Reduces Miro1 levels in fibroblasts from Parkinson's disease (PD) patients ($IC_{50} = 7.8 \mu$ M). Exhibits no significant effect on related outer mitochondrial membrane protein Mitofusin. Reduces stress-induced degeneration of dopaminergic neurons derived from PD patient iPSCs. Rescues age-dependent neuronal loss and prolongs lifespan in fly PD models.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₁₆FN₇O.HCl.1½H₂O Batch Molecular Weight: 452.87 Physical Appearance: Beige/pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: 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).

Catalog No.: 7091

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:

Hsieh *et al* (2019) Miro1 marks Parkinson's disease subset and Miro1 reducer rescues reuron ross in Parkinson's models. Cell Metab. **30** 1131. PMID: 31564441.

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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