Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 5826

Product Name: LEI 101 hydrochloride

CAS Number: 2250025-91-1

IUPAC Name:

FOCR

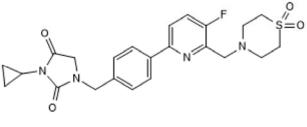
biotechr

2250025-91-1

lame: 3-Cyclopropyl-1-[[4-[6-[(1,1-dioxido-4-thiomorpholinyl)methyl]-5-fluoro-2-pyridinyl]phenyl]methyl] -2,4-imidazolidinedione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₂₃H₂₅FN₄O₄S.HCl 508.99 White solid DMSO to 100 mM Store at -20°C



HCI

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 100% purity Consistent with structure Consistent with structure

	Carbon H	ydrogen l	Nitrogen	Chlorine
Theoretical	54.27	5.15	11.01	6.97
Found	54.34	5.11	10.88	6.76

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

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IUPAC Name: 3-Cyclopropyl-1-[[4-[6-[(1,1-dioxido-4-thiomorpholinyl)methyl]-5-fluoro-2-pyridinyl]phenyl]methyl] -2,4-imidazolidinedione hydrochloride

Description:

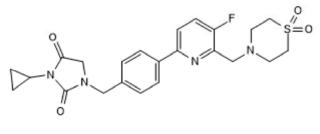
Potent and selective CB_2 partial agonist (pEC₅₀ = 8.0). Exhibits >100-fold selectivity for CB_2 over CB_1 and no significant interaction with hFAAH, MAGL, DAGL or NAPE-PLD. Displays antinociceptive activity in a rat neuropathic pain model and attenuates renal inflammation in a mouse kidney damage model. Orally bioavailable with low brain penetration.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₂₅FN₄O₄S.HCl Batch Molecular Weight: 508.99 Physical Appearance: White 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 $45-60^{\circ}C$ water bath).

Catalog No.: 5826

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.

HCI

References:

Mukhopadhyay *et al* (2016) The novel, orally available and peripherally restricted selective cannabinoid CB₂ receptor agonist LEI-101 prevents cisplatin-induced nephrotoxicity. Br.J.Pharmacol. **173** 446. PMID: 26398481.

van der Stelt M et al (2011) Discovery and optimization of 1-(4-(pyridin-2-yl)benzyl)imidazolidine-2,4-dione derivatives as a novel class of selective cannabinoid CB₂ receptor agonists. J.Med.Chem. **54** 7350. PMID: 21923175.

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