Leramistat

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-156622 1642602-54-7 C ₂₀ H ₂₁ ClN ₂ O ₃ S 404.91 Mitochondrial Metabolism Metabolic Enzyme/Protease	CI C
Pathway:	Metabolic Enzyme/Protease	CI
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (246.97 mM; Need ultrasonic)					
Pi St	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.4697 mL	12.3484 mL	24.6968 mL	
		5 mM	0.4939 mL	2.4697 mL	4.9394 mL	
		10 mM	0.2470 mL	1.2348 mL	2.4697 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution					

Description	
Description Levenistet (UNC C 01 A: MDS2220) is a mitachendrial complex 1 inhibitor involving in call matchelism immun	
regulation. Leramistat also inhibits ATP production in Thp1 human monocytes (IC_{50} : 0.63 µM). Leramistat inhibits of dermatitis and other skin diseases autoimmune diseases, inflammatory diseases, cancer; and also inhibits ostemediated disease ^{[1][2][3]} .	e metabolism its atopic oclast
IC ₅₀ & Target Mitochondrial complex 1 ^[1]	
In Vitro Leramistat has moderate stability in rat hepatocytes, with a half-life of 7 min, and in human hepatocytes, a halmin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	-life of 154

Product Data Sheet



REFERENCES

[1]. Pokharel MD, et al. Mitochondrial network dynamics in pulmonary disease: Bridging the gap between inflammation, oxidative stress, and bioenergetics. Redox Biol. 2024 Apr;70:103049.

[2]. Preparation of 1-methyl-4-[(4-phenylphenyl)sulfonylmethyl]cyclohexanol and 1-methyl-4-[[4-(2-pyridyl)phenyl]sulfonylmethyl]cyclohexanol compounds and their therapeutic use. World Intellectual Property Organization, WO2020035560 A1 2020-02-20.

[3]. Preparation of N-(4-hydroxy-4-methyl-cyclohexyl)-4-phenyl-benzenesulfonamides and N-(4-hydroxy-4-methyl-cyclohexyl)-4-(2-pyridyl)benzenesulfonamides and their therapeutic use. World Intellectual Property Organization, WO2014207445 A1 2014-12-31.

Caution: Product has not been fully validated for medical applications. For research use only.

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