

Leramistat

Chemical Properties

CAS No. : 1642602-54-7

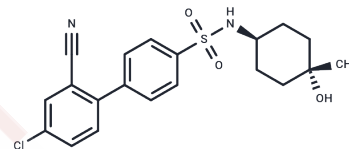
Formula: C₂₀H₂₁ClN₂O₃S

Molecular Weight: 404.91

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Leramistat is a mitochondrial complex I (NIC1) inhibitor that alters cellular metabolism and reduces proliferation in human primary lung fibroblasts, used for treating rheumatoid arthritis.
Targets(IC50)	Mitochondrial Metabolism
In vitro	The half-life of Leramistat in Homo sapiens hepatocytes is 154 minutes, whereas in rat hepatocytes it is only 7 minutes. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (197.57 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.15 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4697 mL	12.3484 mL	24.6968 mL
5 mM	0.4939 mL	2.4697 mL	4.9394 mL
10 mM	0.247 mL	1.2348 mL	2.4697 mL
50 mM	0.0494 mL	0.247 mL	0.4939 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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