Leniolisib

Cat. No.:	HY-17635		
CAS No.:	1354690-24-6		
Molecular Formula:	$C_{21}H_{25}F_3N_6O_2$		
Molecular Weight:	450.46		
Target:	РІЗК		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (222.00 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.2200 mL	11.0998 mL	22.1995 mL	
	5 mM	0.4440 mL	2.2200 mL	4.4399 mL		
		10 mM	0.2220 mL	1.1100 mL	2.2200 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution					

BIOLOGICAL ACTIV				
Description	Leniolisib (CDZ173) is a poten treatment.	t and selective ΡΙ3Κδ inhibitor. L	eniolisib has the potential for im	munodeficiency disorders
IC ₅₀ & Target	РІЗКδ 11 nM (IC ₅₀)	ΡΙ3Κα 280 nM (IC ₅₀)	ΡΙ3Κβ 480 nM (IC ₅₀)	ΡΙ3Κγ 2.57 μΜ (IC ₅₀)
	DNA-PK 880 nM (IC ₅₀)			

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In Vitro	Expression of APDS mutant p110δ in cell lines and patient-derived lymphocytes lead to increased pathway activity, measured as phosphorylation of AKT or S6, which is suppressed by leniolisib in a concentration dependent way ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Oral leniolisib lead to a dose-dependent reduction in PI3K/AKT pathway activity and resolve the immune dysregulation with normalization of circulating transitional and naïve B cells and reduction in PD-1+CD4+ and senescent CD57+CD8+ T cells. After 12 weeks of treatment, all patients show amelioration of lymphoproliferation with lymph node sizes and spleen volumes reduced by 39% (mean, range 26-57%) and 40% (mean, range: 13-65%), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Mol Syst Biol. 2023 Dec 18.

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REFERENCES

[1]. Hoegenauer K, et al. Discovery of CDZ173 (Leniolisib), Representing a Structurally Novel Class of PI3K Delta-Selective Inhibitors. ACS Med Chem Lett. 2017 Aug 25;8(9):975-980.

[2]. Rao V, et al. Effective 'Activated PI3Kd Syndrome' -targeted therapy with PI3Kd inhibitor leniolisib. The New England journal of medicine: NEJM. ISSN 0028-4793; 1533-4406

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

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