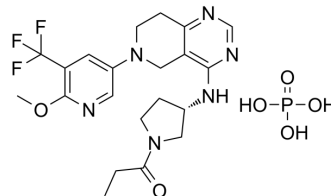


## Leniolisib phosphate

Cat. No.:	HY-17635A
CAS No.:	1354691-97-6
Molecular Formula:	C <sub>21</sub> H <sub>28</sub> F <sub>3</sub> N <sub>6</sub> O <sub>6</sub> P
Molecular Weight:	548.45
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (182.33 mM; Need ultrasonic)  
DMSO : 100 mg/mL (182.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8233 mL	9.1166 mL	18.2332 mL
	5 mM	0.3647 mL	1.8233 mL	3.6466 mL
	10 mM	0.1823 mL	0.9117 mL	1.8233 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Leniolisib (CDZ173) phosphate is a potent and selective PI3K $\delta$  inhibitor. Leniolisib phosphate has the potential for immunodeficiency disorders treatment.

#### IC<sub>50</sub> & Target

PI3K $\delta$ 11 nM (IC <sub>50</sub> )	PI3K $\alpha$ 280 nM (IC <sub>50</sub> )	PI3K $\beta$ 480 nM (IC <sub>50</sub> )	PI3K $\gamma$ 2.57 nM (IC <sub>50</sub> )
DNA-PK 880 nM (IC <sub>50</sub> )			

#### In Vitro

Expression of APDS mutant p110 $\delta$  in cell lines and patient-derived lymphocytes lead to increased pathway activity, measured as phosphorylation of AKT or S6, which is suppressed by Leniolisib phosphate in a concentration dependent way [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. 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

[2]. 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.

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

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