## PI3K/mTOR Inhibitor-13

Cat. No.:	HY-153120	Ę
CAS No.:	1621718-37-3	
Molecular Formula:	$C_{20}H_{13}F_{2}N_{5}O_{3}S$	
Molecular Weight:	441.41	۲ `F
Target:	PI3K; mTOR	O=Ş=O
Pathway:	PI3K/Akt/mTOR	HN
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Description	PI3K/mTOR Inhibitor-13 is an orally active dual inhibitor of phosphoinositol 3-kinase (PI3K) and mTOR kinase. PI3K/mTOR Inhibitor-13 has potential applications in sexual diseases, solid tumor and idiopathic pulmonary fibrosis (IPF) <sup>[1][2]</sup> .								
In Vitro	PI3K/mTOR Inhibitor-13 (Compound A) (0-2 μM; 48 h) inhibits the proliferation of HFL1 cells with dose-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>								
	Cell Line: HFL1 cells.								
	Concentration: 0, 0.03125, 0.0125, 0.025, 0.05, 0.0625, 0.1, 0.125, 0.2, 0.25, 0.4, 0.5, 1 and 2 μM.								
	Incubation Time: 48 h.								
	Result: Showed inhibitory for HFL1 cells.								
	Western Blot Analysis <sup>[1]</sup>								
	Cell Line: HFL1 cells.								
	Concentration: 200 nM.								
	Incubation Time: 48 h.								
	Result: Increased the expression of α-SMA/Tubulin.								
In Vivo	Pharmacokinetic (PK) parameters of PI3K/mTOR Inhibitor-13 <sup>[2]</sup>								
	Species Administration manner Dose (mg/kg) T <sub>1/2</sub> (h) AUC <sub>last</sub> Cl/F (L/h/kg) V <sub>ss</sub> (L/kg) F (%) (ng•h/mL)								
	Rat 2 2.77 7069 0.29 0.85 94.75 injection								



Product Data Sheet



Mice	Intravenous injection	1	5.45	57059	0.02	0.13	79
Dog	Intravenous injection	1	0.67	3672	0.27	0.23	108
Monkey	Intravenous injection	1	9.70	5978	0.16	0.92	59.

## REFERENCES

[1]. Cao S, et al. Pharmaceutical combination or pharmaceutical composition for treatment of fibrotic diseases. World Intellectual Property Organization. WO2020078445.

[2]. Xi N, et al. Aromatic heterocyclic compounds, pharmaceutical composition containing compounds and application of pharmaceutical composition. China. CN103965199.

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

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