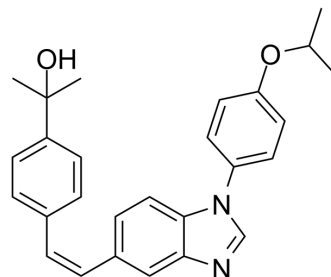


## LHF-535

<b>Cat. No.:</b>	HY-112762		
<b>CAS No.:</b>	1450929-77-7		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>28</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	412.52		
<b>Target:</b>	Arenavirus		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 150 mg/mL (363.62 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.4241 mL	12.1206 mL	24.2412 mL
		5 mM	0.4848 mL	2.4241 mL	4.8482 mL
10 mM		0.2424 mL	1.2121 mL	2.4241 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.42 mg/mL (5.87 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.42 mg/mL (5.87 mM); Clear solution				

## BIOLOGICAL ACTIVITY

<b>Description</b>	LHF-535 is an antiviral agent extracted from patent WO2013123215A2, Compound 38, has EC <sub>50</sub> s of <1 μM, <1 μM, <1 μM, and 1-10 μM for Lassa, Machupo, Junin, and VSVg virus, respectively <sup>[1]</sup> .
<b>In Vitro</b>	LHF-535 is a small-molecule viral entry inhibitor that targets the arenavirus envelope glycoprotein (GP). LHF-535 exhibits potent antiviral activity against a broad array of hemorrhagic fever arenaviruses. LHF-535 inhibits Lassa GP-pseudotyped lentivirus with an IC <sub>50</sub> of 0.1-0.3 nM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	LHF-535 (3, 10 or 30 mg/kg; orally; daily; 14 days) protects mice from a lethal challenge with Tacaribe virus and dramatically reduces viral titers in plasma, spleen, and liver <sup>[2]</sup> .

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An increase in survival is also observed when the first dose of LHF-535 (10 mg/kg) is delayed by 1, 2, or 3 days after infection, demonstrating that LHF-535 is efficacious as a post-exposure therapeutic in mice<sup>[2]</sup>.

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

Animal Model:	IFN- $\alpha/\beta$ and- $\gamma$ receptor-deficient AG129 mice <sup>[2]</sup>
Dosage:	3, 10, or 30 mg/kg/day
Administration:	Orally; daily; 14 days
Result:	Effective as a post-exposure therapeutic.

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## REFERENCES

[1]. Dongcheng Dai, et al. Antiviral drugs for treatment of arenavirus infection. WO2013123215A2.

[2]. Madu IG, et al. A potent Lassa virus antiviral targets an arenavirus virulence determinant. PLoS Pathog. 2018 Dec 21;14(12):e1007439.

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

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