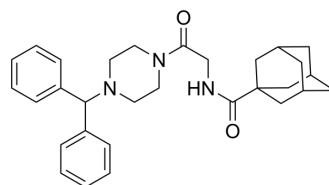


## LASV inhibitor 3.3

Cat. No.:	HY-124871		
CAS No.:	554438-52-7		
Molecular Formula:	C <sub>30</sub> H <sub>37</sub> N <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	471.63		
Target:	Arenavirus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (53.01 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1203 mL	10.6015 mL	21.2031 mL
5 mM	0.4241 mL	2.1203 mL	4.2406 mL
10 mM	0.2120 mL	1.0602 mL	2.1203 mL

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

### BIOLOGICAL ACTIVITY

#### Description

LASV inhibitor 3.3 is a Lassa fever virus (LASV) inhibitor. LASV inhibitor 3.3 binds with LASV glycoprotein (GP) and promotes virus membrane fusion and infection. LASV inhibitor 3.3 can be used for LASV infection research<sup>[1]</sup>.

#### In Vitro

LASV inhibitor 3.3 (1 nM-100 μM; 1 h) inhibits transduction by murine leukemia virus (MLV) pseudotyped with the indicated viral glycoproteins with an IC<sub>50</sub> value of 1.8 μM<sup>[1]</sup>.

LASV inhibitor 3.3 (1 and 10 μM; 1 h) inhibits LAMP1 binding to LASV GP in vitro<sup>[1]</sup>.

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

Western Blot Analysis<sup>[1]</sup>

Cell Line: 293T LAMP1 KO cells expressing LASV GP-His and 293T pX459 cells

Concentration: 1 and 10 μM

Incubation Time: 1 hour

Result: Inhibited the LASV GP binds to LAMP1.

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## REFERENCES

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[1]. Wang MK, et al. Critical role for cholesterol in Lassa fever virus entry identified by a novel small molecule inhibitor targeting the viral receptor LAMP1. PLoS Pathog. 2018 Sep 28;14(9):e1007322.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA