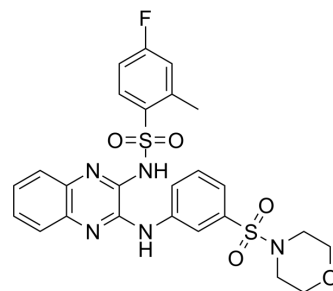


## PRRSV/CD163-IN-1

<b>Cat. No.:</b>	HY-147089		
<b>CAS No.:</b>	560995-89-3		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>24</sub> FN <sub>5</sub> O <sub>5</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	557.62		
<b>Target:</b>	Bacterial; Endogenous Metabolite		
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (89.67 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7933 mL	8.9667 mL	17.9334 mL
5 mM	0.3587 mL	1.7933 mL	3.5867 mL
10 mM	0.1793 mL	0.8967 mL	1.7933 mL

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

### BIOLOGICAL ACTIVITY

#### Description

PRRSV/CD163-IN-1 is a PRRSV/CD163 inhibitor. PRRSV/CD163-IN-1 can inhibit the interaction between the PRRSV glycoprotein (GP2a or GP4) and the CD163-SRCR5 domain. PRRSV/CD163-IN-1 can be used for the research of porcine reproductive and respiratory syndrome (PRRS) <sup>[1]</sup>.

#### In Vitro

PRRSV/CD163-IN-1 (Compound B7) (5 μM) inhibits the Protein-protein interaction (PPI) between PRRSV GP4 glycoprotein and CD163-SRCR5 domain <sup>[1]</sup>.

PRRSV/CD163-IN-1 (24 h) is well-tolerated by PAMs at concentrations below 25 μM, with the LC<sub>50</sub> value of 81.7 μM <sup>[1]</sup>.

PRRSV/CD163-IN-1 (0, 5, 10, 15, or 20 μM; 4 h) inhibits PRRSV infection of PAMs in a dose-dependent manner <sup>[1]</sup>.

PRRSV/CD163-IN-1 (15 μM) significantly inhibits the infection caused by both type I and type II PRRSV strains <sup>[1]</sup>.

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

RT-PCR <sup>[1]</sup>

Cell Line: Porcine alveolar macrophages (PAMs)

Concentration: 0, 5, 10, 15, or 20 μM

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Incubation Time:	4 h
Result:	Revealed a dose-dependent inhibition of PRRSV infection of PAMs.

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## REFERENCES

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[1]. Chang Huang, et al. Small molecules block the interaction between porcine reproductive and respiratory syndrome virus and CD163 receptor and the infection of pig cells. *Virology*. 2020 Jul 30;17(1):116

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

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