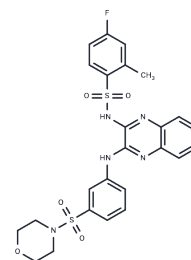


PRRSV/CD163-IN-1

Chemical Properties

CAS No. : 560995-89-3
 Formula: C₂₅H₂₄FN₅O₅S₂
 Molecular Weight: 557.62
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	PRRSV/CD163-IN-1 is an inhibitor targeting PRRSV and CD163 that blocks the interaction between PRRSV glycoproteins (GP2a, GP4) and the SRCR5 domain of CD163, suitable for research on porcine reproductive and respiratory syndrome (PRRS).
Targets(IC50)	Others
In vitro	<p>Methods: In vitro protein-protein interaction assays were performed using 5 μM PRRSV/CD163-IN-1.</p> <p>Results: It inhibited the protein-protein interaction (PPI) between PRRSV GP4 glycoprotein and the CD163-SRCR5 domain.</p> <p>Methods: PAMs were treated with PRRSV/CD163-IN-1 for 24 h, and cytotoxicity was examined.</p> <p>Results: Concentrations below 25 μM showed no obvious toxicity to PAMs, with an LC₅₀ of 81.7 μM [1].</p> <p>Methods: PAMs were treated with 0, 5, 10, 15, 20 μM PRRSV/CD163-IN-1 for 4 h before PRRSV infection.</p> <p>Results: It inhibited PRRSV infection of PAMs in a dose-dependent manner.</p> <p>Methods: PAMs were treated with 15 μM PRRSV/CD163-IN-1 and infected with different genotypes of PRRSV.</p> <p>Results: It significantly inhibited infection by both type I and type II PRRSV strains [1].</p>

Solubility Information

Solubility	DMSO: 40 mg/mL (71.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0359 mL	0.1793 mL	0.3587 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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