
Product Data Sheet

Product Name: PRRSV/CD163-IN-1

Cat. No.: GC67696

Chemical Properties

Cas. No. 560995-89-3

Formula $C_{25}H_{24}FN_5O_5S_2$

M.Wt 557.62

Solubility DMSO : 50 mg/mL (89.67 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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) [1].

PRRSV/CD163-IN-1 (Compound B7) (5 μM) □□ PRRSV GP4 □□□□ CD163-SRCR5 □□□□□□□□□□ □□□□ (PPI)[1]□

PRRSV/CD163-IN-1 (24 h) □□□□□ 25μM □□□ PAMs □□□□□ LC₅₀ □□ 81.7 μM[1]□<

br/>PRRSV/CD163-IN-1 (0, 5, 10, 15, or 20 μM; 4 h) □□□□□□□□□□ PRRSV □□ PAMs[1]□

PRRSV/CD163-IN-1 (15 μM) □□□□□ I □□ II □ PRRSV □□□□□□□□[1]□

RT-PCR[1]

Cell Line: Porcine alveolar macrophages (PAMs)

Concentration: 0, 5, 10, 15, or 20 μM

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Incubation
Time: 4 h

Result: Revealed a dose-dependent inhibition of PRRSV infection of PAMs.

[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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