Recombinant Porcine HAVCR1 Protein(hIgG1 Fc Tag)

Catalog Number: PDMP100005

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

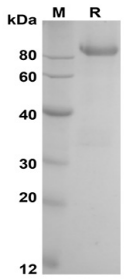
Description

Species	Porcine
Source	Mammalian-derived porcine HAVCR1 protein Tyr21-Val281, with an C-terminal hIgG1 Fc
Calculated MW	53.6 kDa
Observed MW	80-110 kDa
Accession	C8CLK5
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of porcine HAVCR1 proteins, 2μg/lane of Recombinant porcine HAVCR1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 80-110 kDa

Background

HAV cellular receptor 1 (HAVCR1), also known as Kidney injury molecule 1 (KIM-1) and T cell immunoglobulin mucin 1 (TIM-1), is a type of integral membrane glycoprotein. KIM-1 protein is widely expressed with the highest levels in the kidney and testis. It has been shown to play a major role as a human susceptibility gene for asthma, allergy, and autoimmunity. IgA1lambda is a specific ligand of KIM-1 protein and that their association has a synergistic effect in virus-receptor interactions. KIM-1 involves in the pathogenesis of acute kidney injury. It had been confirmed that KIM-1 is a human urinary renal dysfunction biomarker. Moreover, KIM-1 protein is a novel regulatory molecule of flow-induced calcium signaling.