Recombinant MERS-CoV S-trimer Protein (R751S, C-6His)

Catalog Number: PKSV030287

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

Description

Species	MERS
Source	HEK293 Cells-derived MERS Spike protein Tyr18-Lys1294(R751S), with an C-terminal His
Calculated MW	145 kDa
Observed MW	170-220 kDa
Accession	AFS88936.1
Bio-activity	Immobilized MERS-CoV S-trimer Protein (R751S)-His(PKSV030287) at 5μg/ml (100 μl/well) can bind Human CD26-Fc(PKSH033696), The ED_{50} of Human CD26-Fc(PKSH033696) is 27.16 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	Please contact us for more information.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.

Background

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion.The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

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