

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

**Catalog Number:** PKSV030287

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

### Description

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

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	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.