

# Recombinant 2019-nCoV S-trimer Protein (His Tag)(D614G)(Active)



Catalog Number:PKSR030541

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

## Description

<b>Synonyms</b>	2019-nCoV S protein; 2019-nCoV Spike glycoprotein; 2019-nCoV S glycoprotein; SARS-nCoV-2 Spike glycoprotein
<b>Species</b>	SARS-CoV-2
<b>Expression Host</b>	Human Cells
<b>Sequence</b>	Cys15-Gln1208(D614G)
<b>Accession</b>	QHD43416.1
<b>Calculated Molecular Weight</b>	136.5 kDa
<b>Observed molecular weight</b>	170-220kDa
<b>Tag</b>	C-6His
<b>Bioactivity</b>	Immobilized Recombinant 2019-nCoV S-trimer Protein (His Tag)(D614G)(Active)(Cat#PKSR030541) at 2µg/ml (100 µl/well) can bind Recombinant Human ACE-2 Protein (Fc Tag)(Active)(Cat#PKSR030492). The ED50 of PKSR030492 is 31.75 ng/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg as determined by the LAL method.
<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, pH 7.4.
<b>Reconstitution</b>	Not Applicable

## Background

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. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. 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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