

Recombinant 2019-nCoV S1 Protein (C-His)

Catalog No: DRA57

Description Recombinant 2019-nCoV S1 Protein is produced by our Mammalian expression system and the

target gene encoding Gln14-Arg685(D614G) is expressed with a 10His tag at the C-terminus.

Expression System Human cells

Alternative name S1 protein; 2019-nCoV S1 protein; coronavirus S1 Protein; cov S1 Protein

Accession No. QHD43416.1

Predicted 76.6kDa

Molecular Weight

Apparent Molecular Weight

100-130kDa, reducing conditions.

Quality Control Purity: greater than 90% as determined by reducing SDS-PAGE.

Formulation Supplied as a 0.2 µM filtered solution of PBS, pH 7.4.

Shipping The product is shipped on dry ice pack.

Upon receipt, store it immediately at the temperature listed below.

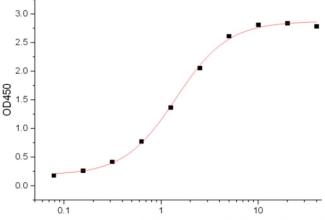
Storage Store at < -20°C, stable for 6 months after receipt.

Please minimize freeze-thaw cycles.

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.

Bioactivity



Recombinant 2019-nCoV S1 Protein (D614G,C-10His) (ug/ml)

Immobilized Human ACE-2-Fc(Cat#C05Y) at 5μ g/ml (100 μ l/well) can bind 2019-nCoV S1-His (D614G)(Cat#DRA57).The ED50 of bind 2019-nCoV S1-His(D614G) (Cat#DRA57) is 1.43 μ g/ml.

