

Recombinant 2019-nCoV Spike S1 Protein with hFc and His tag

Catalog No	RP01259	Category	Recombinant Protein
Description	Recombinant 2019-nCoV Spike S1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val11-Arg682) of 2019-nCoV Spike S1 (Accession #YP_009724390.1) fused with an Fc, 6×His tag at the C-terminus.		

Sequence Information

Species	2019-nCoV	Gene ID	43740568
Tags	Fc, 6×His tag at the C-terminus	Swiss Prot	
Synonyms	S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; novel coronavirus s1 Protein		

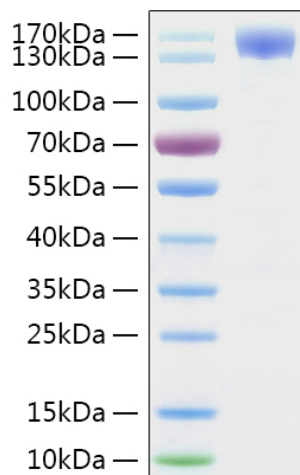
Product information

Source	HEK293 cells
Purity	>95% by SDS-PAGE.
Endotoxin	< 1.0 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

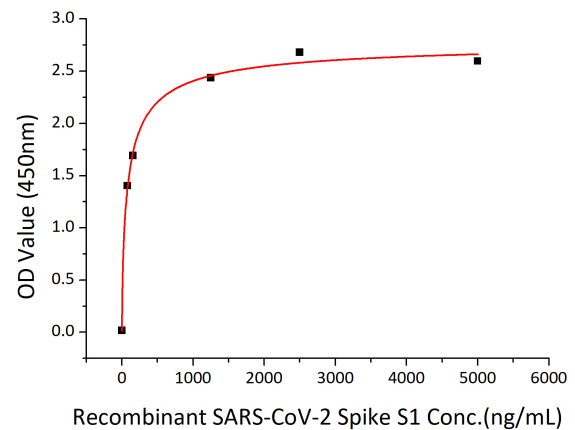
The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

SDS-PAGE



Recombinant 2019-nCoV Spike S1 Protein with hFc and His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 130-160 kDa.

Bioactivity



Immobilized Recombinant Human ACE2 at 2 μg/mL (100 μL/well) can bind Recombinant 2019-nCoV Spike S1-TEVS-hFc-His with a linear range of 78-82.5 ng/mL.