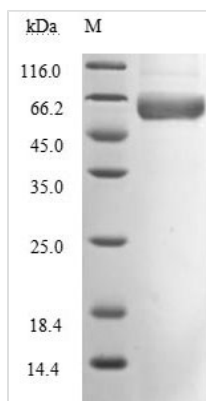


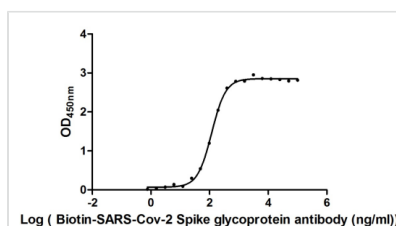


# Recombinant Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S), partial (Active)

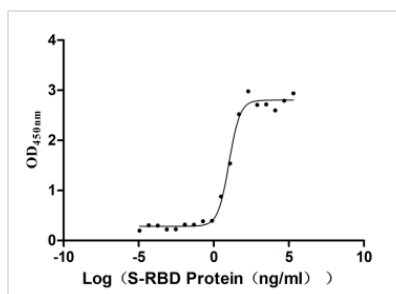
<b>Product Code</b>	CSB-MP3324GMY1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P0DTC2
<b>Form</b>	Lyophilized powder
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)
<b>Biological Activity</b>	①Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 µg/ml can bind Biotinylated Anti-SARS-CoV-2-S Antibody (CSB-RA33245D1GMY), the EC <sub>50</sub> of SARS-CoV-2-S1-RBD protein is 106.2-131.2 ng/ml. ②Measured by its binding ability in a functional ELISA. Immobilized human ACE2 (CSB-MP866317HU) at 2 µg/ml can bind SARS-CoV-2-S1-RBD, the EC <sub>50</sub> of SARS-CoV-2-S1-RBD protein is 8.363-12.82 ng/ml.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRRKRISNCVADYSVLYNSA SFSTFKCYGVSP TKLNDLCFTNVYADSFVIRGDEV RQIAPGQTGKIADYNYKLP DDFTGCVIAWNSNNLDSKVG GNYNYLYRLFRKSNLKP FERDISTEIYQAGSTP CNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVLSFELLHAPATVCGPKKST NLVKNKCVNF
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	Microbiology
<b>Source</b>	Mammalian cell
<b>Gene Names</b>	S
<b>Expression Region</b>	319-541aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 6xHis-mFc-tagged
<b>Mol. Weight</b>	51.1 kDa
<b>Protein Description</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.  
Predicted band size: 51.1 kDa  
Observed band size: 66 kDa due to glycosylation



Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 µg/ml can bind Biotinylated Anti-SARS-CoV-2-S Antibody (CSB-RA33245D1GMY), the EC<sub>50</sub> of SARS-CoV-2-S1-RBD protein is 106.2-131.2 ng/ml.



Measured by its binding ability in a functional ELISA. Immobilized human ACE2 (CSB-MP866317HU) at 2 µg/ml can bind SARS-CoV-2-S1-RBD, the EC<sub>50</sub> of SARS-CoV-2-S1-RBD protein is 8.363-12.82 ng/ml.

## Description

CUSABIO expressed the human SARS-CoV-2 spike glycoprotein (S) amino acid residues Arg319-Phe541 carrying a C-terminal 6xHis-mFc-tag in the mammalian cells. The obtained product is the recombinant partial-length human SARS-CoV-2 S protein. The purity of this protein was measured by SDS-PAGE and reached up to 90%. It migrated to a band with a molecular weight of 66 kDa on the gel under reducing conditions. And it contains less than 1.0 EU/ug endotoxin determined by the LAL method. Its bio-activity was tested through the functional ELISA. In-stock recombinant SARS-CoV-2 S protein is offered now. This S protein has been cited in one reference by Li Zhu et al.

SARS-CoV-2 has been threatening and hitting humans across the world since its emerging in late 2019. The S protein of the SARS-CoV-2 is responsible for receptor recognition, viral attachment, and entry into host cells.

## Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.