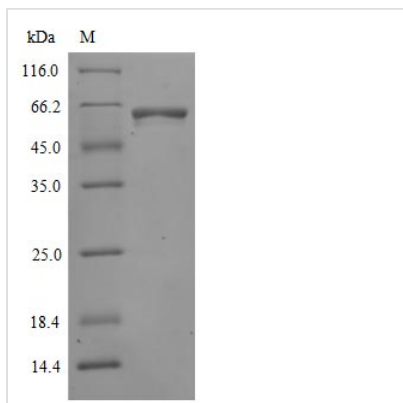


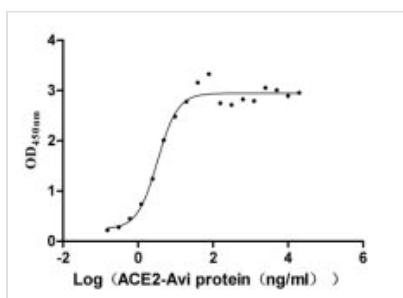


Recombinant Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S) (N501Y), partial (Active)

Product Code	CSB-MP3324GMY1(M6)k2
Abbreviation	Recombinant SARS-CoV-2 S protein (N501Y), partial (Active)
Storage	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.
Uniprot No.	P0DTC2
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
Product Type	Recombinant Protein
Immunogen Species	Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (N501Y) at 2 µg/ml can bind human ACE2 (CSB-MP866317HU-B), the EC ₅₀ is 2.492-4.401 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNKRKISNCVADYSVLYNSA SFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVQRQIAPGQTGKIADYNYKLP DDFTGCVIAWNSNNLDSKVGGNYNLYRLFRKSNLKPFERDISTEIYQAGSTP CNGVEGFNCYFPLQSYGFQPTYGVGYQPYRVVLSFELLHAPATVCGPKKST NLVKNKCVNF
Source	Mammalian cell
Target Names	S,S1-RBD
Expression Region	319-541aa(N501Y)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-mFC-tagged
Mol. Weight	55.3kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (N501Y) at 2 μ g/ml can bind human ACE2 (CSB-MP866317HU-B), the EC_{50} is 2.492-4.401 ng/ml.

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.

Shelf Life

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.