

SARS-CoV-2 (2019-nCoV) S-trimer Protein (Mammalian, D614G, C-6His)

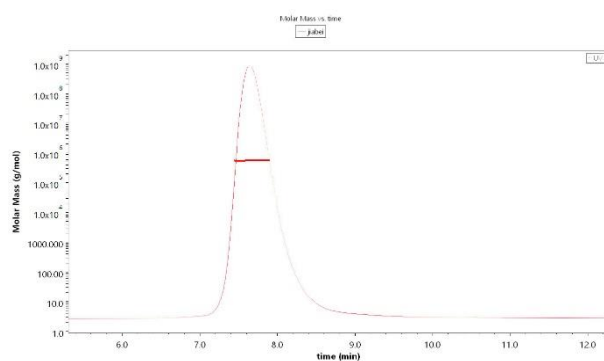
Cat# P0132- 1 mg

Storage at -20°C or below.

INFORMATION

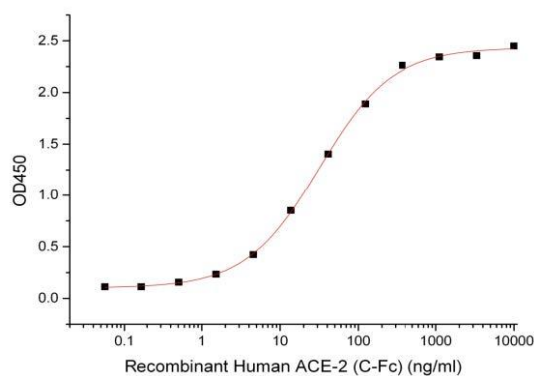
Product Name	SARS-CoV-2 (2019-nCoV) S-trimer Protein (Mammalian, D614G, C-6His)
Product Type	Recombinant Protein
Cat NO.	P0132 1 mg
Size	1 mg
Description	<p>Recombinant SARS-CoV-2 (2019-nCoV) S-trimer Protein (Mammalian, C-6His) is produced by mammalian expression system and the target gene encoding Cys15-Gln1208 (D614G) is expressed with a 6His tag at the C-terminus.</p> <p>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.</p>
Species	SARS-CoV-2 (2019-nCoV)
Source	SARS-CoV-2 (2019-nCoV), Sequence Cys15-Gln1208 (D614G), C-terminal His Tag
Appearance	Liquid
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Purity	>95% as determined by SDS-PAGE
Storage	Reconstituted protein solution should be stored at ≤ -20°C.
Stability	Samples are stable for up to six months from date of receipt at -20°C
M.W.	136.5 kDa
Image	

SEC-MALS

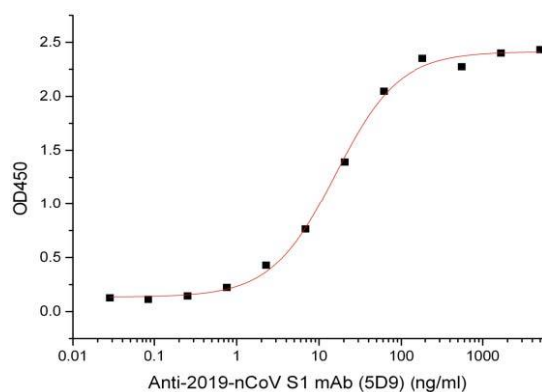


Purity: Greater than 90% as determined by reducing SEC-HPLC.

Bioactivity-Elisa:



Immobilized SARS-CoV-2 (2019-nCoV) S-trimer Protein (Mammalian, D614G, C-6His) (Cat#P0132) at 2 μ g/ml (100 μ l/well) can bind Human ACE-2-Fc(Cat#C05Y). The ED₅₀ of Recombinant Human ACE-2-Fc is 31.75 ng/ml.



Immobilized SARS-CoV-2 (2019-nCoV) S-trimer Protein (Mammalian, D614G, C-6His) (Cat#P0132) at 2 μ g/ml (100 μ l/well) can bind Anti-2019-nCoV S1 mAb (5D9). The ED₅₀ of Anti-2019-nCoV S1 mAb (5D9) is 15.81 ng/ml.

PRODUCT USE LIMITATION

These products are intended for research use only.