

## Product datasheet for TP701119

### SARS-CoV-2 Spike-Membrane Recombinant Fusion Protein (Bioactivity Verified)

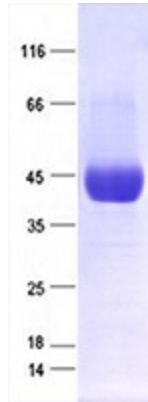
#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant fusion protein that includes the RBD of SARS-CoV-2 Spike protein (S-Protein) and Virion Surface Domain of Membrane Protein (M-protein) with C-terminal HIS-tag
<b>Species:</b>	SARS-CoV-2
<b>Expression Host:</b>	HEK293
<b>Expression cDNA Clone or AA Sequence:</b>	MALWIDRMQL LSCIALSLAL VTNSAKGIYQ TSNFRVQPT E SIVRFPNITN LCPFGEVFNA TRFASVYAWN RKRISNCVAD YSVLYNSASF STFKCYGVSP TKLNDLCFTN VYADSFVIRG DEVRQIAPGQ TGKIADYNYK LPDDFTGCVI AWNSNNLDSK VGGNYNYLYR LFRKSNLKPF ERDISTEIYQ AGSTPCNGVE GFNCYFPLQS YGFQPTNGVG YQPYRWWLS FELLHAPATV CGPKKSTNLV KNKCVNFNFN GLTGTGVLTE SNKKFLGGGS GGGSMADSNG TITVEELKKH HHHHH
<b>Tag:</b>	C-HIS
<b>Predicted MW:</b>	34 kDa
<b>Concentration:</b>	>50 ug/mL as determined by Bradford protein assay method.
<b>Purity:</b>	> 90% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	PBS, 10% glycerol.
<b>Bioactivity:</b>	Binding of SARS-CoV-2 S-M Fusion Protein to Human ACE2: 2 ug/ml of SARS-CoV-2 Spike and Membrane viral fusion protein (gel insert) was immobilized on an ELISA plate and its ability to bind to Human ACE2 was measured. The EC50 was between 10-20 ng/ml.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

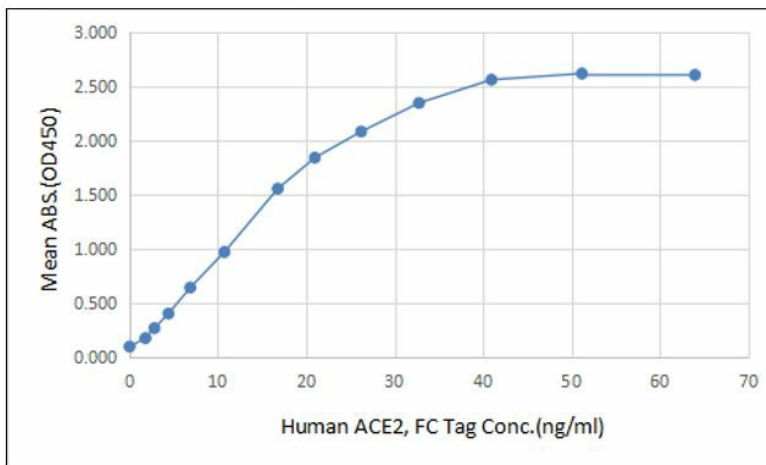


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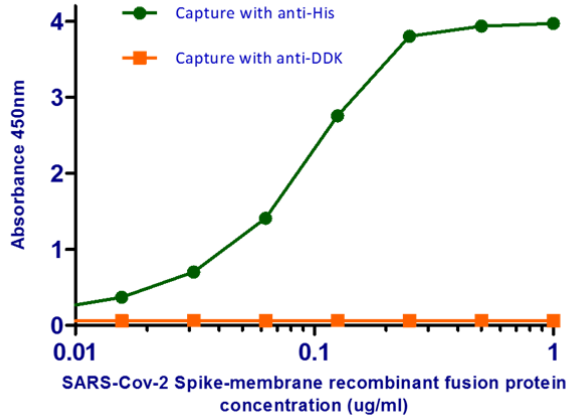
Product images:



Purified recombinant protein S-M protein was analyzed by SDS-PAGE gel and Coomossie Blue Staining.



Binding activity measured by ELISA: Immobilized SARS-CoV-2 Spike Membrane Fusion Protein (RBD of S-Protein and Virion Surface Domain of M-Protein with His Tag; Cat.No. TP701119) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind to Human ACE2 Fc Tag (Cat.No. [TP701115]), the EC50 of the human ACE2 protein is 10-20 ng/ml.



ELISA plates were coated with anti-HIS (Cat# [TA150088]) as capture antibody. HIS-tagged SARS-CoV-2 Spike-membrane recombinant fusion protein (Cat# TP701119) was then added as substrate. Human anti-S antibody (Cat# [TA190325]) with concentration of 0.05 ug/ml against SARS-CoV-2 Spike protein RBD was applied for detection. HRP assay was used for readout. Coating with anti-DDK antibody (Cat# [TA50011-100]) was served as negative control.