COVID-19 S-trimer Recombinant Protein | COVID-19 recombinant protein

Recombinant COVID-19 S-trimer Protein (Omicron, B.1.1.529)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA266228	**Mammalian Cells**	**ChickenOVID-19**	**SDS-Page, Western Blot, ELISA**

PRODUCT SYNONYMS

COVID-19 S-trimer; Recombinant COVID-19 S-trimer Protein (Omicron; B.1.1.529); COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

Host	Mammalian Cells
Reactivity	ChickenOVID-19
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Form/Format	Liquid in a 0.2 um filtered solution of PBS, pH7.4.
Applicable Applications for COVID-19 recombinant protein	MS (Mass Spectrometry), SDS-PAGE, WB (Western Blot), ELISA
Source	Human cells
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
Preparation and Storage	Store it at -20 degree C to -80 degree C for one year. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data
Loaded Anti-COVID-19 S1 mAb on Protein A Biosensor, can bind Recombinant COVID-19 S-trimer Protein (Omicron, B.1.1.529) with an affinity constant of 10.7 nM as determined in bioactivity assay.



Application Data
Loaded Human ACE-2 on Protein A Biosensor, can bind Recombinant COVID-19 S-trimer Protein (Omicron, B.1.1.529) with an affinity constant of 0.5 nM as determined in bioactivity assay.



SDS-PAGE
Greater than 95% as determined by reducing SDS-PAGE.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Recombinant COVID-19 S-trimer Protein (Omicron, B.1.1.529) is produced by our mammalian expression system and the target gene encoding Cys15-Gln1208 is expressed with a 6His tag at the C-terminus. A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K and L981F mutations were identified in the COVID-19 variant (known as Omicron/B.1.1.529 lineage) which emerged in South Africa. Two proline substitutions and furin cleavage site substitutions are introduced to stabilize the trimeric prefusion state of COVID-19 S protein and abolish the furin cleavage site, respectively.
Product Categories/Family for COVID-19 recombinant protein	Proteins

NCBI AND UNIPROT INFORMATION

NCBI GeneID	Human: 43740568
UniProt Accession #	P0DTC2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/covid-19-s-trimer-recombinant-protein-mammalian-cells-ms-mass-spectrometry-sds-page-wb-western-blot-elisa/266228