

SARS COV2 Spike protein S B.1.1.529 (omicron) Trimer Active Protein | SARSCOV2 active protein

SARS COV2 Spike protein S B.1.1.529 (omicron) Trimer Recombinant

CATALOG #	HOST
AAA76382	HEK cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)

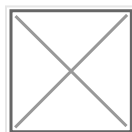
PRODUCT SYNONYMS

SARS COV2 Spike protein S B.1.1.529 (omicron) Trimer; SARS COV2 Spike protein S B.1.1.529 (omicron) Trimer Recombinant; NCOVS; SARSCOV2 active protein

PRODUCT SPECIFICATIONS

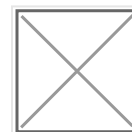
Host	HEK cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant nCoV-2019 Spike S trimer protein was lyophilized from 0.2 um filtered PBS pH7.4.
Source	DNA sequence encoding the COVID-19 Spike S protein [accession# QIC53204.1] variant (B.1.1.529/Omicron) (A67V, del69-70, T95I, del142-144, Y145D, del211, 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, L981F) fused to a T4 Folsom trimerization domain and a C-terminal His AVI tag was expressed in HEK Cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The activity was tested by binding Human ACE2 in functional ELISA assay (see figure below).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C.

IMAGES



ELISA

SARS COV2 S B.1.1.529 trimer ACE functional binding ELISA assay 2019-ncov S B.1.1.529 trimer (coating at 0.1ug-well) binding with Human ACE2-Fc. The linear range was found to be 23 ng/ml



Tris-Bis-PAGE

S B.1.1.529 trimer protein PAGE1ug loaded Tris-Bis PAGE under reducing condition. The purity is greater than 95%.

ADDITIONAL INFORMATION

Product Categories/Family for SARSCOV2 active protein	Viral Antigens; 2019-nCoV; COVID-19 Coronavirus
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NCBI AND UNIPROT INFORMATION

Molecular Weight	Recombinant 2019-nCoV Spike S trimer protein is a protein consisting of the S1+S2 subunits amino acid residues. The protein has a theoretical MW of 140kDa,however due to glycosylation migrates as an approximately 200 kDa protein on reduced SDS-PAGE.
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek-cells-sarscov2-active-protein/sars-cov2-spike-protein-s-b-1-1-529-omicron-trimer/76382>