

Spike glycoprotein (S) Active Protein | S1-RBD active protein

Recombinant Human Novel Coronavirus Spike glycoprotein (S), partial

CATALOG #
AAA244032

HOST
Mammalian Cell

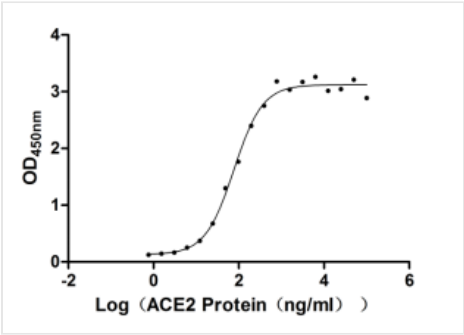
PRODUCT SYNONYMS

Spike glycoprotein (S); Recombinant Human Novel Coronavirus Spike glycoprotein (S); partial; Spike glycoprotein; S1-RBD active protein

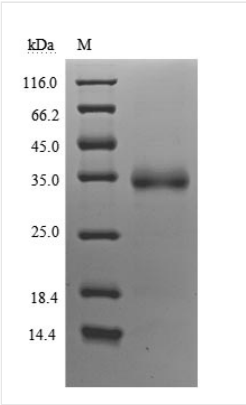
PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH8.0 Lyophilized or liquid (Format to be determined during the manufa
Sequence Positions	319-541aa (V367F), Partial
Sequence	RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNKRRI SNCVADYSFL YNSASFSTFK CYGVSPTKLN DLCFTNVYAD SFVIRGDEV R QIAPGQTGKI ADYNYKLPDD FTGCVIAWNS NNLD SKVGGN YNYLYRLFRK SNLKPFERDI STEIQAGST PCNGVEGFNC YFPLQSYGFQ PTNGVGYPY RVVLSFELL HAPATVCGPK KSTNLVKNKC VNF
Species	SARS-CoV-2
Endotoxin	Less than 1.0EU/ug as determined by LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (V367F) at 5ug/ml can bind human ACE2, the EC50 is 65.58-90.16ng/ml.
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 0.1-1.0mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



Bioactivity



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

ADDITIONAL INFORMATION

Related Product Information for S1-RBD active protein	The cDNA fragment encoding 319-541AA of the V367F mutation of human SARS-CoV-2 spike glycoprotein (S) was fused with a C-terminal 10xHis-tag and then expressed in the mammalian cell. The product is the recombinant partial-length SARS-CoV-2-S protein. Its purity was measured by using SDS-PAGE and reached up to 90%. Under reducing conditions, there presented a molecular mass band of about 35 kDa on the gel. The slightly higher result was attributed to glycosylation. It contains less than 1.0 EU/ug determined by the LAL method. It is also identified as an active protein through the functional ELISA. This recombinant SARS-CoV-2-S protein is in-stock now.
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
Molecular Weight	30.1kDa

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/mammalian-cell-s1-rbd-active-protein/spike-glycoprotein-s/244032>