

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

Recombinant Human Novel Coronavirus Spike glycoprotein (S), partial

CATALOG #
AAA244033

HOST
Mammalian Cell

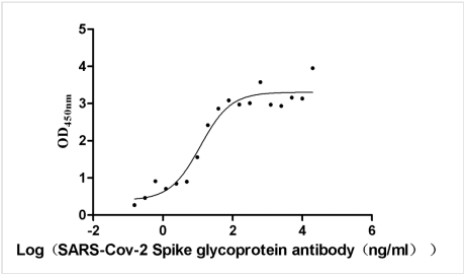
PRODUCT SYNONYMS

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

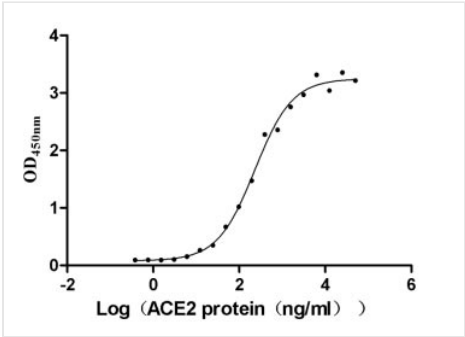
PRODUCT SPECIFICATIONS

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 (V483A), Partial
Sequence	RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNKRRI SNCVADYSVL YNSASFSTFK CYGVSPSTKLN DLCFTNVYAD SFVIRGDEV R QIAPGQTGKI ADYNYKLPDD FTGCVIAWNS NNLD SKVGN YNYLYRLFRK SNLKPFERDI STEIQAGST PCNGAEGFNC YFPLQSYGFQ PTNGVGYQPY R VVLSFELL HAPATVCGPK KSTNLVKNKC VNF
Species	SARS-CoV-2
Endotoxin	Less than 1.0EU/ug as determined by LAL method.
Biological Activity	1: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (V483A) at 5ug/ml can bind human ACE2, the EC50 is 196.4-272.1ng/ml. 2: Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD (V483A) at 2ug/ml can bind SARS-CoV-2-S Antibody, the EC50 is 7.481-18.76ng/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



Activity

ADDITIONAL INFORMATION

Related Product Information for S1-RBD active protein	The recombinant human novel coronavirus spike glycoprotein (S) (V483A) was generated by the expression of a DNA fragment encoding 319-541AA of human SRAS-CoV-2-S in the mammalian cell. The partial-length protein carries a C-terminal 10xHis-tag. It reached up to 90% in purity determined by SDS-PAGE. It was also verified to be fully biologically active through its interaction with ACE2 and SARS-CoV-2-S Antibody. The endotoxin of this SRAS-CoV-2-S is less than 1.0 EU/ug measured by the LAL method. This recombinant SARS0CoV-2-S protein may be used in the studies of the microbiology research area.
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
Molecular Weight	35kDa

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.