

Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S) Active Protein

Recombinant Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S), partial (Active)

CATALOG #
AAA279233

HOST
Yeast

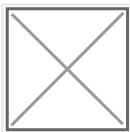
PRODUCT SYNONYMS

Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S); Recombinant Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S); partial (Active); Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S) active protein

PRODUCT SPECIFICATIONS

Host	Yeast
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Sequence Positions	319-541aa; Partial
Sequence	RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNKRRI SNCVADYSVL YNSASFSTFK CYGVSPSTKLN DLCFTNVYAD SFVIRGDEV R QIAPGQTGKI ADYNYKLPDD FTGCVIAWNS NNLD SKVGGN YNYLYRLFRK SNLKPFERDI STEIQAGST PCNGVEGFNC YFPLQSYGFQ PTNGVGYQPY RVVLSFELL HAPATVCGPK KSTNLVKNKC VNF\$
Species	Severe acute respiratory syndrome coronavirus 2 (2019-nCoV)(SARS-CoV-2)
Tag	N-terminal 6xHis-sumostar-tagged
Endotoxin	Not test.
Research Area	Microbiology
Biological Activity	1. Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 ug/ml can bind SARS-CoV-2-S Antibody, the EC50 of SARS-CoV-2-S1-RBD protein is 19.60-39.42 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 5 ug/ml can bind human ACE2, the EC50 of SARS-CoV-2-S1-RBD protein is 31.80 - 44.69 ng/ml. 3. Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 ug/ml can bind SARS-CoV-2-S Antibody, the EC50 of SARS-CoV-2-S1-RBD protein is 13.48-19.50 ng/ml.?SARS-CoV-2 Spike protein RBD his/sumostar tag captured on COOH chip can bind Human ACE2 protein Fc tag with an affinity constant of 100 nM as detected by LSPR Assay.?SARS-CoV-2 Spike protein RBD His/Sumostar Tag captured on COOH chip can bind SARS-CoV-2 Spike RBD Nanobody with an affinity constant of 28.2nM as detected by LSPR Assay.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. 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 0.1-1.0 mg/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.

IMAGES



Application Data

SARS-CoV-2 Spike protein RBD his/sumostar tag captured on COOH chip can bind Human ACE2 protein Fc tag with an affinity constant of 100 nM as



Bioactivity

Measured by its binding ability in a functional ELISA. Immobilized CoV-2-S1-RBD at 2 µg/ml can bind SARS-CoV-2-S Antibody, the EC50 of SARS-CoV-2-S1-RBD protein is 19.39.42 ng/ml.



SDS-PAGE

Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.Predicted band size: 38.2 kDaObserved band size:(a) 68 kDa before EndoH Digestion(b) 38 kDa after EndoH Digestion

ADDITIONAL INFORMATION

Product Categories/Family for Severe acute respiratory syndrome coronavirus 2 Spike glycoprotein (S) active protein

Active Protein & In Stock Protein & Coronavirus Protein

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC2
Molecular Weight	38.2kDa

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/yeast-active-protein/severe-acute-respiratory-syndrome-coronavirus-2-spike-glycoprotein-s/279233>