

SARS-CoV Spike S1+S2 ECD-His (S577A, Isolate Tor2) Active Protein | SARS-CoV active protein

Recombinant SARS-CoV Spike S1+S2 ECD-His Recombinant Protein (S577A, Isolate Tor2)

CATALOG # AAA177995	HOST Baculovirus-Insect Cells
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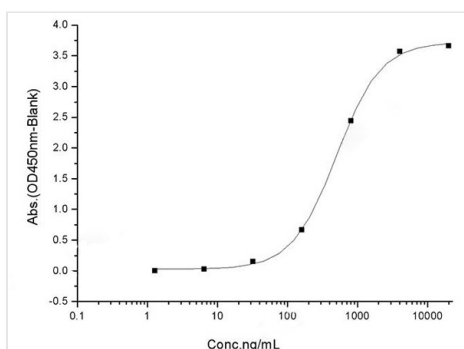
PRODUCT SYNONYMS

SARS-CoV Spike S1+S2 ECD-His (S577A; Isolate Tor2); Recombinant SARS-CoV Spike S1+S2 ECD-His Recombinant Protein (S577A; coronavirus s1 Protein; SARS; coronavirus s2 Protein; coronavirus spike Protein; cov spike Protein; ncov RBD Protein; ncov s1 Protein; ncov s2 Protein; ncov spike Protein; novel coronavirus RBD Protein; novel coronavirus s1 Protein; novel coronavirus s2 Protein; novel coronavirus spike Protein; RBD Protein; S1 Protein; s2 Protein; Spike RBD Protein; SARS-CoV active protein

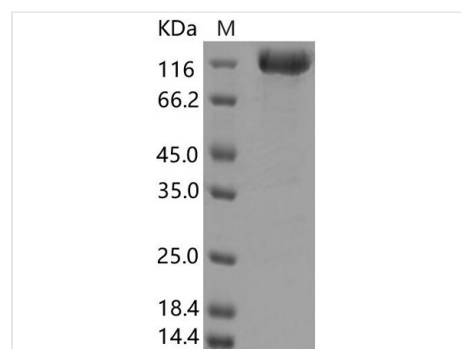
PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM PB, 300mM NaCl, pH7.0, 10% glycerol. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Sequence	Met1-Pro11 95
Species	SARS
Tag	C-His
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the full-length ECD of SARS-CoV (isolate: Tor2) spike (NP_828851.1)(Met1-Pro1195) was expressed with a C-terminal polyhistidine tag.
Activity	Measured by its binding ability in a functional ELISA. Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2ug/mL (100uL/well) can bind SARS-CoV Spike S1+S2 ECD-His Recombinant Protein (S577A, Isolate Tor2), the EC50 of SARS-CoV Spike S1+S2 ECD-His Recombinant Protein (S577A, Isolate Tor2) is 350-700ng/mL.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



Bioactivity



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SARS-CoV active protein	The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid. The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.
Product Categories/Family for SARS-CoV active protein	Virus related Protein

NCBI AND UNIPROT INFORMATION

Molecular Weight	Mol. Mass: 132.58kDa
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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.

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Online datasheet: <https://www.aaabiotech.com/baculovirus-active-protein/sars-cov-spike-s1s2-ecd-his-s577a-isolate-tor2/177995>