

COVID 19 Spike protein S Trimer Coronavirus Active Protein | COVID-19 active protein

Biotinylated SARS COV2 Spike protein S Trimer Recombinant

CATALOG # AAA76126	HOST HEK Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
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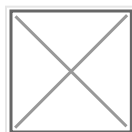
PRODUCT SYNONYMS

COVID 19 Spike protein S Trimer Coronavirus; Biotinylated SARS COV2 Spike protein S Trimer Recombinant; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Spike protein S Trimer; COVID-19 active protein

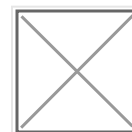
PRODUCT SPECIFICATIONS

Host	HEK Cells (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 Notes	DNA sequence encoding the COVID-19 Spike S protein extracellular domain,[16-1188]R683A (accession # QHD43416.1) fused to a T4 Folsom trimerization domain and a C-terminal His AVI tag was expressed in HEK Cells. The furin cleavage site has been mutated at position 683 and 685 so that the protein is not cleaved into the S1 and S2 primary domains by cellular proteases.
Biotinylation	The S trimer is biotinylated in vitro at a single site using the AVItag TM biotinylation technology.
Biological Activity	The activity was tested by binding Human ACE2 in functional ELISA assay (see figure).
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).
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


Bioactivity

Biotinylated COV2 S trimer(coating at 0.1ug-well) binding with Human ACE2-Fc (cat#RKQ9BYF1F) .The EC50 was determined to be 35 ng/ml


SDS-PAGE

1ug loaded Tris-Bis PAGE under reducing condition. The purity is greater than 95%.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	QHD43416
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.

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.

