

Recombinant SARS-CoV-2 Spike Protein (B.1.351 Variant) (Functional) (A269990)

Specifications:

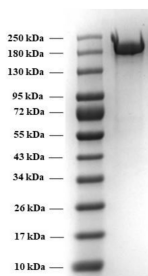
Name:	Recombinant SARS-CoV-2 Spike Protein (B.1.351 Variant) (Functional)
Description:	Full-length soluble protein with foldon trimerization motif, mutated Furin recognition site and 4 stabilising mutations (A892P, A942P, K986P and V987P), based on/modified from Amanat et al, 2020 (PMID: 32398876) and Hsieh et al, 2020 (PMID: 32703906).
Applications:	WB, SDS-PAGE, Immunoassays, Functional Studies
Expression System:	HEK293 cells.
Protein Species:	SARS-CoV-2
Protein Length:	Protein fragment.
Sequence:	VNFTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIHVS SGTNGTKRFANPVLFPNDGVYFASTEKSNIIRGWIFGTTLDSTQSLIVNNATNVVIKVC EFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNL REFVFKNIDGYFKIYSKHTPINLVRGLPQGFSALEPLVDLPIGINITRFQTLHISYLT PGDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTITDAVDCALDPLSETKCTKSFTV EKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYS VLNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVQRQIAPGQTGNIADYNYK LPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIQAGSTPCNG VKGFNCYFPLQSYGFQPTYGVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVN FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVI TPGTNTSNQVAVLYQGVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHV NNSYECDIPIGAGICASYQTQTNSPRGAGSVASQSIIAYTMSLGVENSVAYSNNSIAI PTNFTISVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGI AV EQDKNTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPSPKPSKRSFIEDLLFNKVT LADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTF GAGPALQIPFAMQMAYRFNIGVTVQNVLYENQKLIANQFNSAIGKIQDSLSTPSALG KLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRDPPEAEVQIDRLITGRLQSL QTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSPQSAPHGVVF LHVTYVPAQEKNFTTAPAICHGKAHFPREGVFSNGTHWFVTQRNFYEPQIITDNT FVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVN IQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKSGGSGYIPEAPRDGQAYVRKDG EWWLLSTFLGSHHHHHHHH
Amino Acids:	16 to 1211
Tag:	His Tag (8xHis at the C-terminus).
Predicted MW:	137 kDa (including tags).
Biologically Active:	Yes
Purity:	> 95% (by SDS-PAGE).
Purification:	Affinity chromatography.

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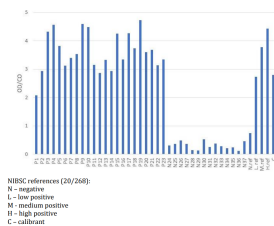
Specifications continued:

Product Form:	Liquid
Concentration:	Lot specific.
Formulation:	Supplied in Phosphate Buffered Saline with 20% Glycerol.
Endotoxin Level:	< 0.1 ng/μg (1 IEU/μg), as measured by LAL method.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -70°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

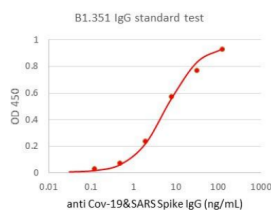
Images:



Recombinant SARS-CoV-2 Spike Protein (B.1.351 Variant) (Functional) on SDS-PAGE. The gel was stained with Instant Blue Stain. The purity of the protein is greater than 95%. Estimated molecular weight (SDS-PAGE) of 190 kDa.



Recombinant SARS-CoV-2 Spike Protein (B.1.351 Variant) (Functional) was immobilised on 96-well plates as the capture antigen. Human serum samples from a serological verification panel containing Anti-SARS-CoV-2 Antibodies from National Institute of Biological Standards and Controls, NIBSC (20/B770), were added to the plate for incubation and subsequent washing. Secondary Anti-Human IgG Antibodies (HRP) were added for detection in a sandwich ELISA format. The final colorimetric reaction occurs upon addition of TMB substrate which is quenched by the addition of acid solution.



Binding curve of Anti-COVID-19 & SARS-CoV S Glycoprotein Antibody [CR3022] to Recombinant SARS-CoV-2 Spike Protein (B.1.351 Variant) (Functional).