

Active Recombinant HCoV S Protein, His-tagged

Cat. No. S-563V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant N-terminal fragment of human coronavirus (isolate HKU1) spike glycoprotein (YP_173238.1) (Met 1-Arg 760), corresponding to the S1 region, was fused with a polyhistidine tag at the C-terminus.
Species	HCoV
Source	HEK293
ProteinLength	1-760 a.a.
Predicted N Terminal	Gly 16
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Spike-His (aa 1-760) at 10 µg/ml (100 µl/well) can bind biotinylated human ACE2-Fc with a linear range of 0.16-4.0 µg/ml.
Molecular Mass	The secreted recombinant human coronavirus spike glycoprotein (aa 1-760) comprises 756 amino acids with a predicted molecular mass of 85.8 kDa. As a result of high glycosylation, the apparent molecular mass of the recombinant protein is approximately 130-140 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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