Recombinant Human-CoV(229E) S(1-1190) protein

Cat. No. hCoVS-112V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant Human-CoV(229E) S(1-1190) protein was expressed in HEK293 cells.
Species	HCoV
Source	HEK293
ProteinLength	1-1190 a.a.
Description	S1 region attaches the virion to the cell membrane by interacting with host ANPEP/aminopeptidase N, initiating the infection. Binding to the receptor probably induces conformational changes in the S glycoprotein unmasking the fusion peptide of S2 region and activating membranes fusion. S2 region belongs to the class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) regions assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes.
Form	Each vial contains 100 ug purified protein (1mg/ml) in PBS (pH7.4).
Purity	>95%

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Applications	WB standard, Ab ELISA, immunogen, etc.
Usage	For research use only, not for use in diagnostic procedures.
Storage	Store at -80 centigrade, Avoid freeze/thaw cycle.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	S
Official Symbol	S
Synonyms	HCoV229Egp2
Gene ID	918758
Protein Refseq	NP_073551.1
UniProt ID	P15423

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