

Recombinant HCoV-NL63 Spike Trimer (S1+S2), C-His-tagged

Cat. No. Spike-02H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human Coronavirus NL63 Spike trimer (S1+S2) (HCoV-NL63 S protein), Genbank Accession No. APF29071, a.a. 1-1296(full length), with a C-terminal His-tag, expressed in a HEK293 expression system. MW=146 kDa. This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.
Species	HCoV-NL63
Source	HEK293
ProteinLength	1-1296 a.a.
Description	S1 region attaches the virion to the cell membrane by interacting with the host receptor, 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	Aqueous buffer solution.
Molecular Mass	146 kDa

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AA Sequence	1-1296(full length)
Purity	>90%
Usage	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage	At least 6 months at -80 centigrade.
Storage Buffer	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
Shipping	-80 centigrade
Warning	Avoid freeze/thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Official Symbol	S
Synonyms	S; Spike glycoprotein; S glycoprotein; E2; Peplomer protein
UniProt ID	A0A1L2YVI8

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SDS-PAGE

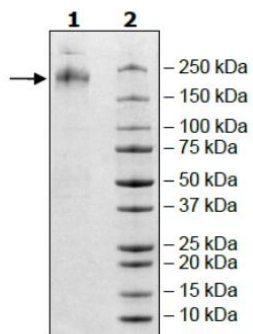
4-20% SDS-PAGE Coomassie staining

Lane 1:
4µg HCoV NL63 S
Trimer

Lane 2:
Protein Marker

MW: 146 kDa
+glycans

Purity: >90%



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