

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

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	HCoV-NL63
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-1296 a.a.
<b>Description</b>	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.
<b>Form</b>	Aqueous buffer solution.
<b>Molecular Mass</b>	146 kDa

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<b>AA Sequence</b>	1-1296(full length)
<b>Purity</b>	>90%
<b>Usage</b>	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.
<b>Storage</b>	At least 6 months at -80 centigrade.
<b>Storage Buffer</b>	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
<b>Shipping</b>	-80 centigrade
<b>Warning</b>	Avoid freeze/thaw cycles.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Official Symbol</b>	S
<b>Synonyms</b>	S; Spike glycoprotein; S glycoprotein; E2; Peplomer protein
<b>UniProt ID</b>	<a href="#">A0A1L2YV18</a>

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**SDS-PAGE**

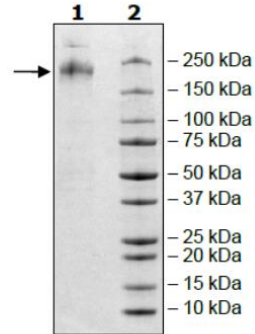
**4-20% SDS-PAGE  
Coomassie staining**

**Lane 1:**  
4µg HCoV NL63 S  
Trimer

**Lane 2:**  
Protein Marker

**MW:** 146 kDa  
+glycans

**Purity:** >90%



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