

## HCoV-NL63 Spike/S Protein (APF29071, sf9, His)

Cat. No.:	HY-P77383
Synonyms:	Human coronAvirus (HCoV-NL63) Spike Protein (S1+S2, His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	APF29071 (M1-P1296)
Gene ID:	/
Molecular Weight:	Approximately 142.4 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 300 mM NaCl, 10% Glycerol, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	HCoV-NL63 is a coronavirus, specifically a filovirus from the genus coronavirus A. The virus is a coated, positive single-stranded RNA virus that enters host cells by binding to ACE2. The S1 region attaches virions to the cell membrane through interactions with host receptors, triggering infection. Binding to the receptor may cause conformational changes of S glycoprotein, reveal fusion peptide in the S2 region, and activate membrane fusion. The S2 region belongs to the Class I virus fusion protein. The virus is mainly found in young children, the elderly and immunocompromised patients with acute respiratory illness <sup>[1][2][3]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA