

HCoV-HKU1 Spike/S1 Protein (Q5MQD0, HEK293, His)

Cat. No.:	HY-P76388
Synonyms:	Human coronAvirus HKU1 (isolate N1) (HCoV-HKU1) Spike/S1 Protein (S1 Subunit, His)
Species:	Virus
Source:	HEK293
Accession:	Q5MQD0 (M1-R760)
Gene ID:	3200426
Molecular Weight:	130-140 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. 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 ₂ 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	The HCoV-HKU1 Spike/S1 protein plays a pivotal role in the infection process by attaching the virion to the host cell membrane through interaction with the host receptor, initiating the infection. Functioning as a class I viral fusion protein, it facilitates the fusion of virion and cellular membranes. The protein undergoes a dynamic conformational transition, exhibiting at least three states: the pre-fusion native state, the pre-hairpin intermediate state, and the post-fusion hairpin state. During the fusion process, the coiled coil regions, characterized by heptad repeats, form a trimer-of-hairpins structure. This arrangement positions the fusion peptide in close proximity to the C-terminal region of the ectodomain, a configuration believed to drive the apposition and subsequent fusion of viral and target cell membranes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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