HCoV-HKU1 Spike/S1 Protein (Q0ZME7, HEK293, His)

Cat. No.:	HY-P77387
Synonyms:	Human coronAvirus HKU1 (isolate N5) (HCoV-HKU1) Spike/S1 Protein (S1, His)
Species:	Virus
Source:	HEK293
Accession:	Q0ZME7 (A13-R756)
Gene ID:	/
Molecular Weight:	Approximately 85.2 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 viral infection process by attaching the virion to the cell membrane through interaction with host receptors, thereby initiating infection. Functioning as a class I viral fusion protein, it mediates the fusion of the virion with cellular membranes. The protein undergoes at least three conformational states: a pre-fusion native state, a pre-hairpin intermediate state, and a post-fusion hairpin state. During the fusion process between viral and target cell membranes, the coiled coil regions (heptad repeats) adopt a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. This structural rearrangement is crucial for driving the apposition and subsequent fusion of viral and target cell membranes.

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