

HCoV-229E Spike/S1 Protein (APT69883, HEK293, His)

Cat. No.:	HY-P76385
Synonyms:	Human coronAvirus (HCoV-229E) Spike/S1 Protein (S1 Subunit, His)
Species:	Virus
Source:	HEK293
Accession:	APT69883 (C16-N536)
Gene ID:	/
Molecular Weight:	Approximately 58.3 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	<p>Coronaviruses (CoVs) are enveloped, positive-sense, single-stranded RNA viruses with the largest genomes known among RNA viruses (~26–32 kb) belonging to the order Nidovirales¹. Coronaviruses spike (S) glycoproteins mediate viral entry into host cells by binding to host receptors. To date, there are seven coronaviruses, namely the alphacoronaviruses HCoV-229E and HCoV-NL63, the betacoronaviruses HCoV-OC43, HCoV-HKU1, SARS-CoV, MERS-CoV and the emerging coronavirus (SARS-CoV-2). Moreover, fusion activation of HCoV-229E may be highly reliant on cleavage of the S2' trigger loop (GSR685↓V686AG)^{[1][2]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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