

## HCoV-OC43 Spike/S Protein (Sf9, His, myc)

Cat. No.:	HY-P72269
Synonyms:	E2; Peplomer protein; Human coronavirus OC43 Spike glycoprotein
Species:	Virus
Source:	Sf9 insect cells
Accession:	P36334 (V15-K344)
Gene ID:	/
Molecular Weight:	Approximately 41.0 kDa

### PROPERTIES

AA Sequence	<pre>V I G D L K C T S D   N I N D K D T G P P   P I S T D T V D V T   N G L G T Y Y V L D R V Y L N T T L F L   N G Y Y P T S G S T   Y R N M A L K G S V   L L S R L W F K P P F L S D F I N G I F   A K V K N T K V I K   D R V M Y S E F P A   I T I G S T F V N T S Y S V V V Q P R T   I N S T Q D G D N K   L Q G L L E V S V C   Q Y N M C E Y P Q T I C H P N L G N H R   K E L W H L D T G V   V S C L Y K R N F T   Y D V N A D Y L Y F H F Y Q E G G T F Y   A Y F T D T G V V T   K F L F N V Y L G M   A L S H Y Y V M P L T C N S K L T L E Y   W V T P L T S R Q Y   L L A F N Q D G I I   F N A E D C M S D F M S E I K C K T Q S   I A P P T G V Y E L   N G Y T V Q P I A D   V Y R R K P N L P N C N I E A W L N D K</pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.2 µm filtered solution in 10 mM Tris-HCl, 1 mM EDTA, 3% Trehalose, pH 8.0.
Endotoxin Level	<1.0 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	The HCoV-OC43 Spike (S) Protein, specifically the S1 subunit, plays a crucial role in the initiation of infection by attaching the virion to the cell membrane. S1 accomplishes this by interacting with sialic acid-containing cell receptors, facilitating the binding of the virus to the host cell membrane. This pivotal interaction marks the initial step in the infection process, allowing the virus to establish a connection with the host receptor and commence the infection.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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