

Envelope small membrane Protein, HCoV-NL63 (Cell-Free, His)

Cat. No.:	HY-P702269
Synonyms:	Envelope small membrane protein
Species:	Virus
Source:	E. coli Cell-free
Accession:	Q6Q1S0 (M1-V77)
Gene ID:	2943502
Molecular Weight:	12.0 kDa

PROPERTIES

AA Sequence	M F L R L I D D N G I V L N S I L W L L V M I F F F V L A M T F I K L I Q L C F T C H Y F F S R T L Y Q P V Y K I F L A Y Q D Y M Q I A P V P A E V L N V
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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 Envelope Small Membrane Protein assumes a central role in virus morphogenesis and assembly, functioning as a viroporin that self-assembles in host membranes, forming homopentameric protein-lipid pores facilitating ion transport. Beyond its involvement in virus formation, it also plays a significant role in the induction of apoptosis. Existing as a homopentamer, this protein interacts with the membrane protein M in the host cell's budding compartment, situated between the endoplasmic reticulum and the Golgi complex. Additionally, it engages with the Nucleoprotein, contributing to the intricate interplay of proteins crucial for the virus life cycle within the host cellular environment. The multifaceted functions of the Envelope Small Membrane Protein highlight its pivotal role in the dynamic processes of virus assembly, membrane interaction, and apoptotic induction.
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Caution: Product has not been fully validated for medical applications. For research use only.

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