Recombinant 2019-nCoV Envelope Protein (His Tag)

Catalog No: RPES0024 **Category**: Recombinant Protein

Sequence Information

Species: Virus

Sequence: Met1-Val75

Accession: QHD43418.1

Tag: N-6His

Product Information

Synonyms: 2019-nCoV E protein; 2019-nCoV sM protein

Source: E.coli

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μg as determined by the LAL method.

Formulation: Supplied as a 0.2 μM filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt; store it immediately at<-20°C.

Background

Coronavirus envelope (E) proteins are short (100 residues) polypeptides that contain at least one transmembrane (TM) domain and a cluster of 2-3 juxtamembrane cysteines. These proteins are involved in viral morphogenesis and tropism, and their absence leads in some cases to aberrant virions, or to viral attenuation. In common to other viroporins, coronavirus envelope proteins increase membrane permeability to ions, plays a central role in virus morphogenesis and assembly. Acts as a viroporin and self-assembles in host membranes forming pentameric protein-lipid pores that allow ion transport. Also plays a role in the induction of apoptosis. Activates the host NLRP3 inflammasome, leading to IL-1beta overproduction.

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