Recombinant 2019-nCoV Envelope Protein

Catalog No: DRA33

Description	Recombinant 2019-nCoV Envelope Protein is produced by our E.coli expression system and the target gene encoding Met1-Val75 is expressed with a BBP, 6His tag at the N-terminus.
Source	E. coli
Alternative name	2019-nCoV E protein; 2019-nCoV sM protein
Accession No.	QHD43418.1
Predicted Molecular Weight	27.5kDa
AP Molecular Weight	22-25kDa, reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Quality Control	Purity: Greater than 85% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Reconstituted protein solution should be stored 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.