

Recombinant SARS-CoV-2 Envelope Protein (His Tag)



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by Elabscience

Catalog Number:PKSR030488

Note: Centrifuge before opening to ensure complete recovery of vial contents.

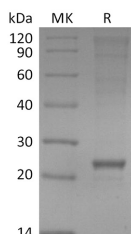
Description

Synonyms	2019-nCoV E protein;2019-nCoV sM protein
Species	SARS-CoV-2
Expression Host	E.coli
Sequence	Met1-Val75
Accession	QHD43418.1
Calculated Molecular Weight	27.5 kDa
Observed molecular weight	22-25 kDa
Tag	N-BBP-His

Properties

Purity	> 83 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
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.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 8.0
Reconstitution	Not Applicable

Data



> 83 % as determined by reducing SDS-PAGE.

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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