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Recombinant SARS-CoV-2(2019-nCoV) S +M +E protein

Catalog Number: ATEP02447COV

Overview

Description Recombinant SARS-CoV-2 S +M +E protein is produced by E.coli

expression system and the target gene encoding Met1-Tyr265 & Met1-Leu102 & Met1-Val75 is expressed with a 6His tag at the

N-terminus.

F coli

Expression system

Species Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

Spike glycoprotein, Membrane protein, Envelope small membrane

Alternative names protein, E protein

Accession # S(QHD43416.1) &M(QHD43419.1)&E(QHD43418.1)

Specifications

Predicted Molecular Mass 45.56kDa

Actual Molecular Mass 45.56kDa, reducing conditions

Purity >90% as determined by SDS-PAGE quantitative densitometry by

Coomassie Blue Staining.

Endotoxin level Please contact with the lab for this information

Bioactivity Testing in progress

Formulation Supplied as lyophilized from PBS, pH7.5

Preparation and storage

Shipping In general, proteins are shipped out with blue ice unless customers

require otherwise.

Stability &Storage Use a manual defrost freezer and avoid repeated freeze thaw cycles.

Store at 2 to 8 °C for one week.

Store at -20 to -80 °C for twelve months from the date of receipt.

Reconstitution Reconstitute in ddH₂O to a concentration of 0.1-1.0 mg/mL. Do not

vortex.



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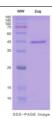
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Background

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 It-1beta overproduction.

SDS-PAGE image



Note

For research use only. Not for use in clinical diagnostic procedures.