Recombinant COVID-19 Envelope protein, His-tagged

Cat. No. E-137V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Envelope protein(Met1-Val75), fused to BBP, 6*His-tag at the N-terminus, was expressed in E.coli and purified by affinity purification chromatography.
Species	Sars-CoV-2
Source	E.coli
ProteinLength	Met1-Val75
Description	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.
Form	Supplied as a 0.2 μM filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 8.0.
Molecular Mass	Mol Mass: 27.5 kDa; AP Mol Mass: 22-25 kDa, reducing conditions.
Purity	Greater than 85% as determined by reducing SDS-PAGE.

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Applications	Immunogen, calibrator or standard.
Storage	Reconstituted protein solution should be stored at ≤ -20 centigrade.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Warning	FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

GENE INFORMATION

Gene Name	E
Official Symbol	E
Synonyms	GU280_gp04
Gene ID	43740570
Protein Refseq	YP_009724392.1

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