Recombinant SARS-CoV-2 E Protein, BBP/His-tagged

Cat. No. E-45S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (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.
Species	SARS-CoV-2
Source	E.coli
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 uM filtered solution of 20mM Tris-HCl, 200mM NaCl, pH 8.0.
Molecular Mass	Predicted Molecular Weight: 27.5kDa Apparent Molecular Weight: 22-25kDa under reducing condition.
AA Sequence	Met1-Val75

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>85%
Storage	Reconstituted protein solution should be stored at ≤ -20 centigrade.
Quality Statement	Purity: Greater than 85% as determined by reducing SDS-PAGE.
Shipping	The product is shipped on dry ice pack.

GENE INFORMATION

Gene Name	E envelope protein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	E
Synonyms	2019-nCoV E protein; 2019-nCoV sM protein
Gene ID	43740570
Protein Refseq	YP_009724392.1
UniProt ID	P0DTC4

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