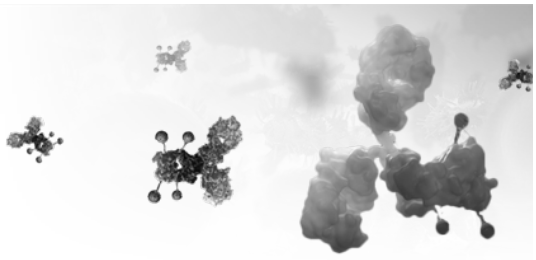

Recombinant SARS-CoV-2 Envelope Protein [His] (DAGC165)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant SARS-CoV-2 Envelope Protein is produced by our E.coli expression system and the target gene encoding Met1-Val75 is expressed with 6His tag at the N-terminus.
Species	coronavirus
Purity	Greater than 85% as determined by reducing SDS-PAGE.
Conjugate	His
Applications	Immunogen, calibrator or standard
Molecular Weight	The predicted molecular mass is 27.5 kDa, and the actual MW is about 22-25 kDa in SDS-PAGE under reducing conditions.
Format	Liquid
Size	100 µg
Buffer	Supplied as a 0.2 µM filtered solution of 20mM Tris–HCl, 200mM NaCl, pH 8.0
Preservative	None
Storage	Store at -20°C or below.

BACKGROUND

Introduction	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

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	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.
Keywords	SARS-CoV-2; coronavirus; SARS-CoV-2 E Protein; SARS-CoV-2 Envelope Protein

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