

Recombinant SARS Coronavirus Envelope protein

Cat. No. Envelope-301V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS Coronavirus Envelope protein (1-76aa) was expressed in E.coli.
Species	SARS-CoV
Source	E.coli
ProteinLength	76
Description	Coronaviruses (CoVs) (order Nidovirales, family Coronaviridae, subfamily Coronavirinae) are enveloped viruses with a positive sense, single-stranded RNA genome. With genome sizes ranging from 26 to 32 kilobases (kb) in length. They infect humans and cause disease to varying degrees, from upper respiratory tract infections (URTIs) resembling the common cold, to lower respiratory tract infections (LRTIs) such as bronchitis, pneumonia, and even severe acute respiratory syndrome (SARS). SARS-CoV and MERS-CoV cause severe infections that lead to high mortality rates. The coronaviral genome encodes four major structural proteins: the spike (S) protein, nucleocapsid (N) protein, membrane (M) protein, and the envelope (E) protein, all of which are required to produce a structurally complete viral particle. The E protein is the smallest of the major structural proteins. During the replication cycle, E is abundantly expressed inside the infected cell, but only a small portion is incorporated into the virion envelope. E participates in viral assembly, release of virions and pathogenesis of the virus. The majority of the protein is localised at the site of intracellular trafficking, the ER, Golgi, and ERGIC, where it participates in CoV

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assembly and budding. Recombinant CoVs lacking E exhibit significantly reduced viral titres, crippled viral maturation, or yield propagation incompetent progeny, demonstrating the importance of E in virus production and maturation

Form	Liquid. 50mM Tris-HCl, 60mM NaCl and 50% glycerol.
Molecular Mass	34 kDa
Purity	>95% as determined by 10% PAGE (coomassie staining).
Applications	ELISA, Western blot.
Storage	Upon arrival, store at below -18 centigrade.
Shipping	Dry Ice.
Warning	For Research Use Only.

GENE INFORMATION

Gene Name	E
Official Symbol	E
Synonyms	sars4
Gene ID	1489671
Protein Refseq	NP_828854.1
UniProt ID	P59637

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