

PRODUCT DATASHEET

Catalog No:	BSV-COV-PR-048/ BSV-COV-PR-049
Product Name:	SARS Coronavirus Membrane Protein (Matrix) (<i>E. coli</i>)
Description:	SARS Coronavirus Membrane Protein (Matrix) is a recombinant protein (also known as E1 glycoprotein or Matrix) manufactured in <i>E. coli</i> . Immunoreactive with sera from SARS-infected individuals.
Species:	SARS-CoV-1
SARS-CoV-1 amino acids:	221 amino acids
Tag:	6xHis-tag
Host:	<i>E.coli</i>
Purity:	>90 % by SDS-PAGE
Buffer:	1 x PBS buffer
Concentration:	1.0mg/ml
Formulation:	Recombinant protein stored in 1 x PBS buffer.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (<1 EU/μg)
Shipping, Storage & Stability:	Store product at -80°C. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Background:	The SARS coronavirus is a positive and single stranded RNA virus belonging to a family of enveloped coronaviruses. Its genome is about 29.7kb, which is one of the largest among RNA viruses. The SARS virus has 13 known genes and 14 known proteins. There are 265 nucleotides in the 5'UTR and 342 nucleotides in the 3'UTR. SARS is similar to other coronaviruses in that its genome expression starts with translation of two large ORFs, 1a and 1b, both of which are polyproteins. ORFs 1a and 1b encode the replicase and there are four major structural proteins: nucleocapsid, spike, membrane and envelope. It also encodes for eight unique proteins, known as the accessory proteins, all with no known homologues. The matrix protein M (221 aa), which is an integral membrane protein involved in budding and which interacts with the nucleocapsid and S proteins. As a component of the viral envelope it plays a central role in virus morphogenesis and assembly via its interactions with other viral proteins.

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