9051 Mira Mesa Blvd, #910094
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# SARS MERS

*SARS MERS Spike S1 Recombinant*
*VAG0434*

## Product Overview

| | |
|---|---|
| Name | SARS MERS |
| **Description** | |
| SARS MERS Spike S1 Recombinant | |
| Accession (Primary) | AHC74088 |
| **Introduction** | |

Since April 2012, cases of the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) have been identified in the following countries: Saudi Arabia, Qatar, Jordan, the United Arab Emirates, Oman, Kuwait, Yemen, Lebanon, Iran, Algeria, the United Kingdom, France, Italy, Greece, Germany, the Netherlands, Austria, Tunisia, Egypt, Malaysia, Turkey and the United States of America. Coronaviruses are the cause of the common cold, SARS (severe acute respiratory syndrome) and other severe illnesses with high mortality rates, all are classified into coronavirus family. MERS-CoV is a new type of SARS found in the coronavirus family causing severe pneumonia with sudden and serious respiratory illness with high mortality rates as well. Since January 27 th 2015, the WHO has reported 956 human cases, including 351 deaths. More cases of the new coronavirus strain are expected. Like in other coronaviruses, large surface spike glycoprotein is a central structural protein of this virus; it is located above the virion surface to bind and enter into the target cell. Spike protein has 2 domains- S1 and S2. The S1 domain is responsible for cellular tropism and interaction with target cell, while the S2 domain is responsible for membrane fusion. The C-terminal of S1 domain contains a receptor binding domain, and is also a potential target for vaccine development and an antigen for diagnosis.

**Source**

Escherichia Coli.

**Physical Appearance**

Sterile filtered clear solution.

**Formulation**

SARS MERS protein solution is supplied in PBS, 25mM arginine and 0.05% sodium azide.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Purity**

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Protein is >95% pure as determined by 10% PAGE (coomassie staining).

**Amino acid sequence**

EAKPSGSVVEQAEGVECDFSPLLSGTPPQVYNFKRLVFTNCNYNLTKLLSLFSVND

FTCSQISPAAIASNCYSSLILDYFSYPLSMKSDLSVSSAGPISQFNYKQSFSNPTC

LILATVPHNLTTITKPLKYSYINKCSRLLSDDRTEVPQLVNANQYSPCVSIVPSTV

WEDGDYYRKQLSPLEGGGWLVASGSTVAMTEQLQMGFGITVQYGTDTNSVCPKLEF

ANDTKIASQLGNCVEYHHHHHH.

**Applications**

Immunoassay.

**Precautions**

SARS MERS is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( AHC74088 )