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SARS Spike (14-1195)

SARS Associated Coronavirus Spike (14-1195 a.a.) Recombinant
VAG0449

Product Overview

Name	SARS Spike (14-1195)

Description

SARS Associated Coronavirus Spike (14-1195 a.a.) Recombinant

Accession (Primary)	P59594

Synonyms

Spike glycoprotein, S glycoprotein, Peplomer protein, E2 glycoprotein precursor, Severe acute repiratory Syndrome-related Coronavirus, SARS, SRAS-CoV, SARS-CoV1, E2.

Introduction

SARS Coronavirus is an enveloped virus containing 3 outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein takes part in virus infection cycle and is the primary target of neutralizing antibodies.

Source

Sf9, Baculovirus cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The SARS Spike (14-1195) solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.

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

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

SDLDRCTTFD DVQAPNYTQH TSSMRGVYYP DEIFRSDTLY LTQDLFLPFY SNVTGFHTIN HTFGNPVIPF KDGIYFAATE KSNVVRGWVF GSTMNNKSQS VIIINNSTNV VIRACNFELC DNPFFAVSKP MGTQTHTMIF DNAFNCTFEY ISDAFSLDVS EKSGNFKHLR EFVFKNKDGF LYVYKGYQPI DVVRDLPSGF NTLKPIFKLP LGINITNFRA ILTAFSPAQD IWGTSAAAYF VGYLKPTTFM LKYDENGTIT DAVDCSQNPL AELKCSVKSF

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EIDKGIYQTS NFRVVPSGDV VRFPNITNLC PFGEVFNATK FPSVYAWERK KISNCVADYS VLYNSTFFST FKCYGVSATK LNDLCFSNVY ADSFVVKGDD VRQIAPGQTG VIADYNYKLP DDFMGCVLAW NTRNIDATST GNYNYKYRYL RHGKLRPFER DISNVPFSPD GKPCTPPALN CYWPLNDYGF YTTTGIGYQP YRVVVLSFEL LNAPATVCGP KLSTDLIKNQ CVNFNFNGLT GTGVLTPSSK RFQPFQQFGR DVSDFTDSVR DPKTSEILDI SPCAFGGVSV ITPGTNASSE VAVLYQDVNC TDVSTAIHAD QLTPAWRIYS TGNNVFQTQA GCLIGAEHVD TSYECDIPIG AGICASYHTV SLLRSTSQKS IVAYTMSLGA DSSIAYSNNT IAIPTNFSIS ITTEVMPVSM AKTSVDCNMY ICGDSTECAN LLLQYGSFCT QLNRALSGIA AEQDRNTREV FAQVKQMYKT PTLKYFGGFN FSQILPDPLK PTKRSFIEDL LFNKVTLADA GFMKQYGECL GDINARDLIC AQKFNGLTVL PPLLTDDMIA AYTAALVSGT ATAGWTFGAG AALQIPFAMQ MAYRFNGIGV TQNVLYENQK QIANQFNKAI SQIQESLTTT STALGKLQDV VNQNAQALNT LVKQLSSNFG AISSVLNDIL SRLDKVEAEV QIDRLITGRL QSLQTYVTQQ LIRAAEIRAS ANLAATKMSE CVLGQSKRVD FCGKGYHLMS FPQAAPHGVV FLHVTYVPSQ ERNFTTAPAI CHEGKAYFPR EGVFVFNGTS WFITQRNFFS PQIITTDNTF VSGNCDVVIG IINNTVYDPL QPELDSFKEE LDKYFKNHTS PDVDLGDISG INASVVNIQK EIDRLNEVAK NLNESLIDLQ ELGKYEQYIK WP HHHHHH

Biological Activity

Measured by its binding ability in a functional ELISA with Human ACE-2 (CAT# enz-1159).

Precautions

SARS Spike (14-1195) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P59594)