
Product Data Sheet

Product Name: SARS Spike (14-1195)

Cat. No.: GP26389

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Amino Acid
Sequence

SDLDRCTTFD DVQAPNYTQH TSSMRGVYYP DEIFRSDTLY LTQDLFLPFY
 SNVTGFHTIN HTFGNPVIPF KDGIFYAATE KSNVVRGWVF GSTMNNKSQS
 VIIINNSTNV VIRACNFELC DNPFFAVSKP MGTQTHMIF DNAFNCTFEY
 ISDAFSLDVS EKSGNFKHLR EFVFKNKDGF LYVYKGYQPI DVVRDLPSGF
 NTLKPIFKLP LGINITNFRA ILTAFSPAQD IWGTSAAAYF VGYLKPTTFM
 LKYDENGITIT DAVDCSQNPL AELKCSVKSF EIDKGIYQTS NFRVVPSPGDV
 VRFPNITNLC PFGEVFNATK FPSVYAWERK KISNCVADYS VLYNSTFFST
 FKCYGVSATK LNDLCFSNVY ADSFVVKGDD VRQIAPGQTG VIADYNYKLP
 DDFMGCVLAW NTRNIDATST GNYNYKYRYL RHGKLRPFER DISNVPFSPD
 GKPCPPALN CYWPLNDYGF YTTTGIGYQP YRVVLSFEL LNAPATVCGP
 KLSTDLIKNQ CVNFNFNGLT GTGVLTPSSK RFQPFQQFGR DVSDFTDSVR
 DPKTSEILDI SPCAFGGVSV ITPGTNASSE VAVLYQDVNC TDVSTAIHAD
 QLTPAWRIYS TGNNVFQTQA GCLIGAEHVD TSYECDIPIG AGICASYHTV
 SLLRSTSQKS IVAYTMSLGA DSSIAYSNTT IAIPTNFSIS ITTEVMPVSM
 AKTSVDCNMY ICGDSTECAN LLLQYGSFCT QLNRALSGIA AEQDRNTREV
 FAQVKQMYKT PTLKYFGGFN FSQILPDPLK PTKRSFIEDL LFNKVTLADA
 GFMKQYGECL GDINARDLIC AQKFNGLTVL PLLTDDMIA AYTAALVSGT
 ATAGWTFGAG AALQIPFAMQ MAYRFNGIGV TQNVLYENQK QIANQFNKAI
 SSIQESLTTT STALGKLQDV VNQNAQALNT LVKQLSSNFG AISSVLNDIL
 SRLDKVEAEV QIDRLITGRL QSLQTYVTQQ LIRAAEIRAS ANLAATKMSE
 CVLGQSKRVD FCGKGYHLMS FPQAAPHGVV FLHVTVVPSQ ERNFTTAPAI
 CHEGKAYFPR EGVFVFNQTS WFITQRNFFS PQIITDNTF VSGNCDVWIG
 IINNTVYDPL QPELDSFKEE LDKYFKNHTS PDVDLGDIG INASVVNIQK
 EIDRLNEVAK NLNESLIDLQ ELGKYEYQYK WPHHHHHH

Formulation

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

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.

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Biological Activity

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

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.

Background

SARS Spike produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 1188 amino acids (14-1195 aa) and having a molecular mass of 131.9kDa. SARS Spike is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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