
Product Data Sheet

Product Name: SARS Spike (306-515), Sf9
 Cat. No.: GP26388
 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.		
Amino Acid Sequence	ADPRVVPSGD VVRFPNITNL CPFGEVFNAT KFPSVYAWER KKISNCVADY SVLYNSTFFS TFKCYGVSAT KLNDLCFSNV YADSFVVKGD DVRQIAPGQT GVIADYNYKL PDDFMGCVLA WNTRNIDATS TGNVNYKYRY LRHGKLRPFE RDISNVPFSP DGKPCPPAL NCYWPLNDYG FYTTTGIGYQ PYRVVLSFE LLNAPATVCG PKLHHHHHH		
Formulation	The SARS Spike (306-515) solution (0.5mg/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.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SARS Spike produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 219 amino acids (306-515 aa) and having a molecular mass of 24.7kDa. SARS Spike is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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