

32-13553: SARS Spike (306-515), Sf9

Application : Functional Assay

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

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : The SARS Spike (306-515) solution (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.

Storage condition : 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.

Amino Acid : ADPRVPSGD VVRFPNITNL CPFGEVFNAT KFPSVYAWER KKISNCVADY SVLYNSTFFS TFKCYGVSAT
KLNDLCFSNV YADSFVVKGD DVRQIAPGQT GVIADYNYKL PDDFMGCVLA WNTRNIDATS TGNVNYKYRY
LRHGKLRPFE RDISNVPFSP DGKPCTPPAL NCYWPLNDYG FYTTTGIGYQ PYRVVLSFE LLNAPATVCG
PKLHHHHHH

Application Note

Measured by its binding ability in a functional ELISA with Human ACE-2.