



SARS Spike Protein [His] (DAG-H10342)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the S1 subunit of human SARS coronavirus (isolate:WH20) spike (AAX16192.1) (Met1-Arg667) was expressed with a C-terminal polyhistidine tag.
Species	SARS
Purity	> 90 % as determined by SDS-PAGE
Conjugate	His
Applications	Western Blotting standard, antibody ELISA, immunogen, etc
Predicted N terminal	Ser 14
Molecular Weight	The recombinant S1 subunit of human SARS coronavirus (isolate:WH20) spike comprises 665 amino acids and has a predicted molecular mass of 74.4 kDa. The apparent molecular mass of the protein is approximately 85.8 kDa in SDS-PAGE under reducing conditions
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C
Endotoxin	< 1 .0 EU per µg of the protein as determined by the LAL method
Format	Lyophilized
Concentration	Specific concentrations are included in the hardcopy of COA.
Size	100 µg
Buffer	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4.
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

SARS Coronavirus is an enveloped virus containing three 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 plays an important role in virus infection cycle and is the primary target of neutralizing antibodies. The E.Coli derived 38 kDa mosaic protein contains the N-terminal section of the Spike protein.
