



SARS Spike Protein [His] (DAG-H10343)

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

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the receptor binding domain (RBD) of human SARS coronavirus (isolate:WH20) spike (AAX16192.1) (Arg306-Phe527) was expressed with a C-terminal polyhistidine tag.
Species	SARS
Purity	> 95 % as determined by SDS-PAGE
Conjugate	His
Applications	Western Blotting standard, antibody ELISA, immunogen, etc
Predicted N terminal	Arg 306
Molecular Weight	The recombinant receptor binding domain (RBD) of human SARS coronavirus (isolate:WH20) spike comprises 233 amino acids and has a predicted molecular mass of 26.5 kDa. The apparent molecular mass of the protein is approximately 35.1 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	50 µg, 100 µg
Buffer	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 8.0.
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.
