



# Recombinant SARS-CoV-2 S protein (R683A, R685A) [His] (DAGC213)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	SARS-CoV-2 S protein (R683A, R685A), His Tag is expressed from human 293 cells (HEK293). It contains AA Val 16 - Pro 1213 (Accession # QHD43416.1 (R683A, R685A)). This protein carries a polyhistidine tag at the C-terminus.
<b>Species</b>	SARS-CoV-2
<b>Purity</b>	>85% as determined by SDS-PAGE.
<b>Conjugate</b>	His
<b>Applications</b>	SDS-PAGE, ELISA
<b>Predicted N terminal</b>	Val 16
<b>Molecular Weight</b>	The protein has a calculated MW of 134.6 kDa. The protein migrates as 170-220 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per ug by the LAL method.
<b>Format</b>	Lyophilized
<b>Size</b>	100 µg, 1 mg
<b>Buffer</b>	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
<b>Preservative</b>	None
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at:

-20°C to -70°C for 12 months in lyophilized state;  
-70°C for 3 months under sterile conditions after reconstitution.

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## BACKGROUND

### Introduction

It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

### Keywords

SARS-CoV-2; SARS-CoV-2 Spike Protein; SARS-CoV-2 S Protein

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