



Recombinant SARS-CoV-2 Spike S1 [His] (DAGC194)

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

PRODUCT INFORMATION

Product Overview	SARS-CoV-2 Spike Protein, S1 Subunit (His-Tag), Recombinant
Species	SARS-CoV-2
Purity	≥ 85% (SDS-PAGE)
Conjugate	His
Applications	ELISA, WB
Molecular Weight	Predicted molecular weight is about 76 kDa. Based on 12% reducing SDS-PAGE, the apparent MW is about 85 kDa (due to the glycosylation).
Format	Liquid
Size	1 mg
Buffer	Phosphate Buffered Saline, pH 7.4
Preservative	None
Storage	Store at -20°C. Avoid repeated freeze/thaw cycles.

BACKGROUND

Introduction	The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2; DPP4, dipeptidyl peptidase-4; APN, aminopeptidase N; CEACAM, carcinoembryonic antigen-related cell adhesion molecule 1; Sia, sialic acid; O-ac Sia, O-acetylated sialic acid.
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The spike is essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process.

Keywords

SARS-CoV-2; coronavirus; SARS-CoV-2 S1; SARS-CoV-2 spike protein; SARS-CoV-2 spike S1
