



Biotinylated Recombinant SARS-CoV-2 Spike RBD Protein (Insect Cells) [His] (DAGC235)

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

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the SARS-CoV-2 Spike Protein (RBD) (YP_009724390.1) (Arg319-Phe541) was expressed with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro.
Species	SARS-CoV-2
Purity	> 95 % as determined by SDS-PAGE
Conjugate	His
Applications	SDS-PAGE, ELISA
Predicted N terminal	Arg319
Molecular Weight	The recombinant SARS-CoV-2 Spike Protein (RBD, His Tag) consists of 234 amino acids and predicts a molecular mass of 26.54 kDa.
Endotoxin	< 1.0 EU per ug protein as determined by the LAL method.
Format	Lyophilized
Size	20 µg
Buffer	Lyophilized from sterile 20mM PB, 300mM NaCl, 5% glycerol, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
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.

Ship	<p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.</p> <p>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.</p>
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BACKGROUND

Introduction	<p>The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell: they are 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. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. The SARS-CoV spike (S) protein is composed of two subunits; the S1 subunit contains a receptor-binding domain that engages with the host cell receptor angiotensin-converting enzyme 2 and the S2 subunit mediates fusion between the viral and host cell membranes. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV.</p>
Keywords	SARS-CoV-2; SARS-CoV-2 Spike RBD Protein; SARS-CoV-2 RBD; SARS-CoV-2 S1 RBD; SARS-CoV-2 RBD Protein
