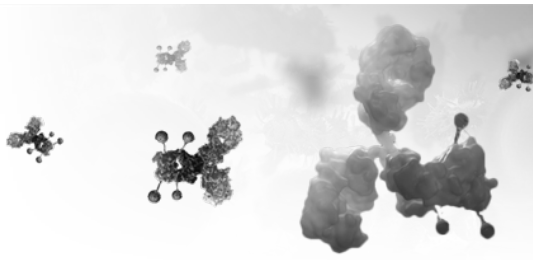

Recombinant SARS Spike glycoprotein Receptor-binding domain (a.a. 306-527) [His] (DAGC110)

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

PRODUCT INFORMATION

Product Overview	SARS S protein RBD, His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 306 - Phe 527 (Accession # AAP13567.1).
Species	coronavirus
Conjugate	His
Predicted N terminal	Arg 306
Molecular Weight	30.2 kDa
Format	Lyophilized
Size	100 µg
Buffer	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5.
Preservative	None
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please 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: 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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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.

Keywords	SARS; CoV; SARS RBD; SARS S; SARS S Protein; SARS S RBD

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Tel: 1-631-624-4882 Fax: 1-631-938-8221