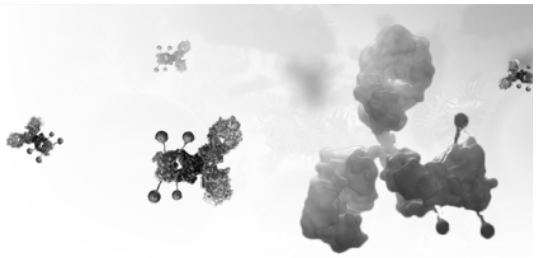

Recombinant HCoV NL63 Spike Trimer (S1+S2) [His] (DAGC250)

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

PRODUCT INFORMATION

Product Overview	Human Coronavirus NL63 Spike trimer (S1+S2) (HCoV-NL63 S protein), Genbank Accession No. APF29071, a.a. 1-1296(full length), with a C-terminal His-tag, expressed in a HEK293 expression system.
Species	HCoV NL63
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	His
Applications	SDS-PAGE, ELISA
Molecular Weight	146 kDa. This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.
Format	Liquid
Size	100 µg, 500 µg
Buffer	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
Preservative	None
Storage	Store at -80°C.

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	HCoV NL63 Spike; HCoV-NL63; HCoV NL63; NL63; NL63 Spike; NL63 Spike Protein; NL63 S Protein

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