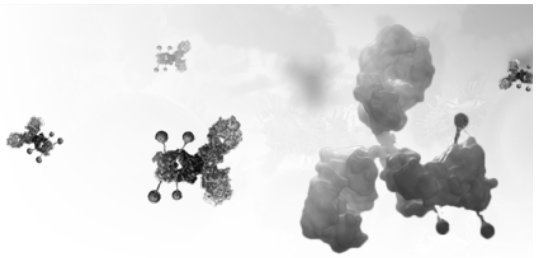

Recombinant SARS-CoV-2 S protein trimer [His] (DAGC496)

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

PRODUCT INFORMATION

Species	SARS-CoV-2
Purity	>95% as determined by SDS-PAGE.
Conjugate	His
Applications	SDS-PAGE, ELISA
Predicted N terminal	Val 16
Molecular Weight	The protein has a calculated MW of 138.0 kDa. The protein migrates as 150-200 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Format	Lyophilized
Size	50 µg, 500 µg
Buffer	Lyophilized from 0.22 um filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
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. 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.

BACKGROUND

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

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; SARS-CoV-2 S protein trimer

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