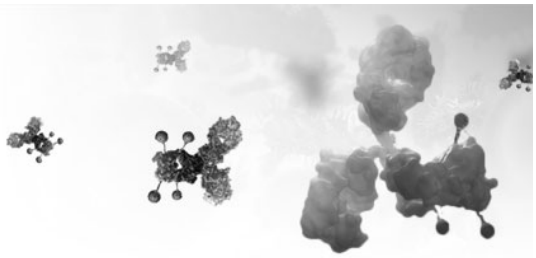

Recombinant Human coronavirus HKU1 Spike Protein [His] (DAGC132)

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

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the human coronavirus HKU1 (isolate N1) (HCoV-HKU1) spike protein (S1 Subunit) (YP_173238.1) (Met 1-Arg 760) was expressed with a polyhistidine tag at the C-terminus.
Nature	Recombinant
Expression System	HEK293 Cells
Species	HCoV-HKU1
Purity	> 90 % as determined by SDS-PAGE.
Conjugate	His
Applications	SDS-PAGE
Predicted N terminal	Gly 16
Molecular Weight	130-140 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Procedure	None
Format	Lyophilized
Size	100 μg
Buffer	Lyophilized from sterile 20 mM PB, 300 mM NaCl, 10 % glycerol, pH 7.5
Preservative	None

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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.

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. 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	HCoV HKU1; HCoV; HKU1; CoV; CoV S Protein

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