

Datasheet for ABIN7274390

SARS-CoV-2 Spike S1 Protein (Deltacron) (His tag)



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2 Images

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	Deltacron
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SARS-CoV-2 Spike S1 protein is labelled with His tag.

Product Details

Purpose:	SARS-COV-2 Spike S1 (Deltacron) Protein
Sequence:	Gln14-Arg683 (T19R, A27S, T95I, G142D, EFR156G, NL211I, INS214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H)
Characteristics:	Recombinant SARS-COV-2 Spike S1(Deltacron) Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln14-Arg683(T19R, A27S, T95I, G142D, EFR156G, NL211I, INS214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H). Alanine substitutions (R683A) are introduced to stabilize the trimeric prefusion state of SARS-COV-2 Spike S1(Deltacron) Protein and abolish the furin cleavage site, respectively.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized SARS-CoV-2 Spike S1 (Deltacron) , His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 65.9ng/ml determined by ELISA. See testing image for detail.

Target Details

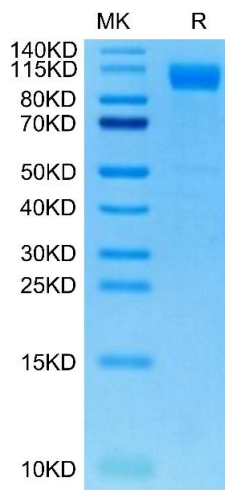
Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 Products
Target Type:	Viral Protein
Background:	The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Molecular Weight:	73.94 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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Handling

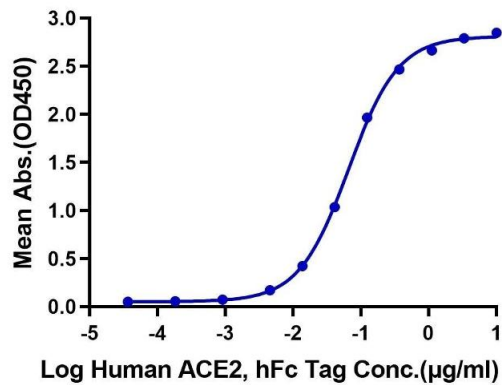
Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. SARS-COV-2 Spike S1 (Deltacron) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

SARS-COV-2 Spike S1(Deltacron), His Tag ELISA
0.1µg SARS-COV-2 Spike S1(Deltacron), His Tag Per Well



ELISA

Image 2. Immobilized SARS-COV-2 Spike S1 (Deltacron) , His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 65.9 ng/mL determined by ELISA.