Datasheet for ABIN7274459

# SARS-CoV-2 Spike S1 Protein (B.1.617.2 - delta) (His tag)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | SARS-CoV-2 Spike S1 |
| Protein Characteristics: | B.1.617.2 - delta |
| 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

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|---|---|
| Purpose: | SARS-CoV-2 Spike S1 (Delta B.1.617.2) Protein |
| Sequence: | Gln14-Arg683 (T19R, G142D, E156G, HR157-158 del, L452R, T478K, D614G, P681R) |
| Characteristics: | Recombinant SARS-CoV-2 Spike S1 (Delta B.1.617.2) Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gln14-Arg683(T19R, G142D, E156G, HR157-158 del, L452R, T478K, D614G, P681R). |
| Purity: | > 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1EU per µg by the LAL method. |
| Biological Activity Comment: | Immobilized SARS-CoV-2 Spike S1 (Delta B.1.617.2) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 21.8ng/ml determined by ELISA. See testing image for detail. |

## Target Details

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|---|---|
| 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: | 75.92 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result. |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water. |
| Buffer: | Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | -20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Expiry Date: | 12 months |

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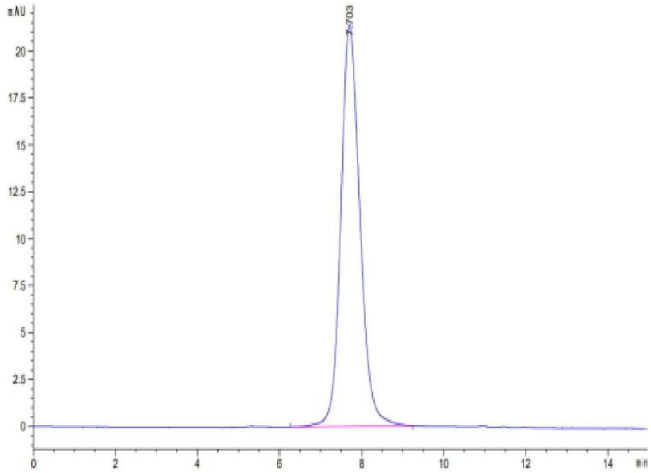
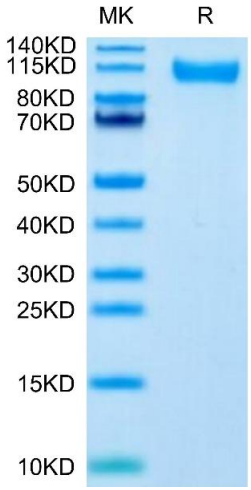


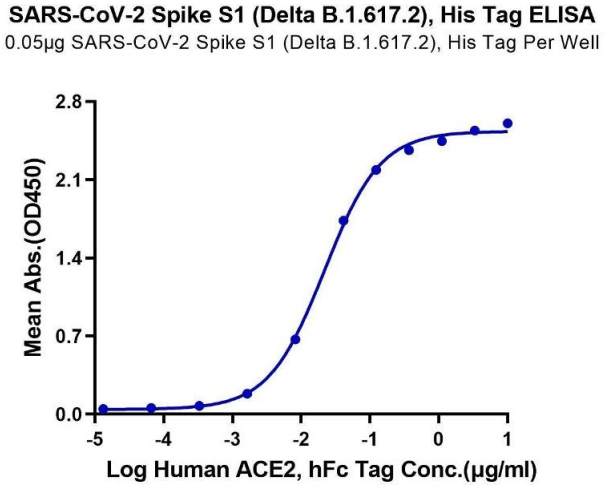

**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 1.** The purity of SARS-CoV-2 Spike S1 (Delta B.1.617.2) is greater than 95 % as determined by SEC-HPLC.




**SDS-PAGE**

**Image 2.** SARS-CoV-2 Spike S1 (Delta B.1.617.2) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .




**ELISA**

**Image 3.** Immobilized SARS-CoV-2 Spike S1 (Delta B.1.617.2) , His Tag at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 21.8 ng/mL determined by ELISA.

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