Datasheet for ABIN7447847

# SARS-CoV-2 Spike S2 Protein (BA.2 - Omicron) (Biotin,His-Avi Tag)

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## Overview

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| Quantity: | 200 µg |
| Target: | SARS-CoV-2 Spike S2 |
| Protein Characteristics: | BA.2 - Omicron |
| Origin: | SARS Coronavirus-2 (SARS-CoV-2), SARS CoV-2 Omicron |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SARS-CoV-2 Spike S2 protein is labelled with Biotin,His-Avi Tag. |

## Product Details

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| Purpose: | Biotinylated SARS-CoV-2 Spike S2 protein, His,Avitag™ (BA.2/Omicron) |
| Sequence: | Ser 686 - Pro 1213 |
| Characteristics: | Biotinylated SARS-CoV-2 Spike S2 protein, His,Avitag™ (BA.2/Omicron) is expressed from human 293 cells (HEK293). It contains AA Ser 686 - Pro 1213 (Accession # QHD43416.1 (N764K, D796Y, Q954H, N969K, F817P, A892P, A899P, A942P, K986P, V987P). The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.2/3/4/5). Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) are introduced to prevent the formation of aggregates in the course of protein production. |
| Purity: | 95,00 % |
| Endotoxin Level: | 1.0 EU per µg |

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## Target Details

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| Target: | SARS-CoV-2 Spike S2 |
| Alternative Name: | SARS-CoV-2 Spike S2 protein (SARS-CoV-2 Spike S2 Products) |
| Target Type: | Viral Protein |
| Background: | Synonyms:Spike,S2 protein,Spike glycoprotein Subunit2,S glycoprotein Subunit2,Spike protein S2,Description: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. |
| Molecular Weight: | 61.7 kDa |

## Application Details

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| Comment: | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 61.7 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |
| Storage: | -20 °C |
| Storage Comment: | -20°C |