Datasheet for ABIN7447847

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

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Overview

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

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

Target Details

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

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

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