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Datasheet for ABIN7125933

SARS-CoV-2 Spike S2 Protein (BA.1 - Omicron) (His tag)

Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S2
Protein Characteristics:	BA.1 - 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 His tag.

Product Details

Purpose:	SARS-CoV-2 Spike S2 protein, His Tag (BA.1/Omicron)
Sequence:	Ser 683 - Pro 1210
Characteristics:	<p>SARS-CoV-2 S2 protein, His Tag (BA.1/Omicron) is expressed from human 293 cells (HEK293). It contains AA Ser 686 - Pro 1213 (Accession # QHD43416.1 (N764K, D796Y, N856K, Q954H, N969K, L981F, F817P, A892P, A899P, A942P, K986P, V987P). The mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.1; GISAID clade: GRA; Nextstrain clade: 21K). Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) are introduced to prevent the formation of aggregates in the course of protein production.</p>
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	SARS-CoV-2 Spike S2
Alternative Name:	SARS-CoV-2 Spike S2 protein (SARS-CoV-2 Spike S2 Products)
Background:	<p>Synonyms: Spike,S2 protein,Spike glycoprotein Subunit2,S glycoprotein Subunit2,Spike protein S2,</p> <p>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.</p>
Molecular Weight:	59.9 kDa

Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 59.9 kDa. The protein migrates as 70-80 kDa under reducing (R) condition due to glycosylation.
Restrictions:	For Research Use only

Handling

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