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SARS-CoV-2 Spike Protein (BA.4 - Omicron, BA.5 - Omicron, RBD) (His-Avi Tag, Biotin)



Go to Product pag

1 Publication

Overview

Quantity:	200 μg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	BA.4 - Omicron, BA.5 - Omicron, RBD
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 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated SARS-CoV-2 Spike RBD, His,Avitag™ (BA.4&BA.5/Omicron) (MALS verified)
Sequence:	Arg 319 - Lys 537
Characteristics:	Biotinylated SARS-CoV-2 Spike RBD, His, Avitag (BA. 4&BA. 5/Omicron) is expressed from human
	293 cells (HEK293). It contains AA Arg 319 - Lys 537 (Accession # QHD43416.1 (G339D, S371F,
	S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V,
	Q498R, N501Y, Y505H). The spike mutations are identified on the SARS-CoV-2 Omicron variant
	(Pango lineage: BA.4 and BA.5, GISAID clade: GRA).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.
Grade:	MALS verified

Target Details

Target:	SARS-CoV-2 Spike
Alternative Name:	SARS-CoV-2 Spike (SARS-CoV-2 Spike Products)
Background:	Synonyms: Spike,S protein RBD,Spike glycoprotein Receptor-binding domain,S glycoprotein
	RBD,Spike protein RBD,
	Description: It's been reported that Coronavirus 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:	28.3 kDa
Application Details	
Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The
	protein has a calculated MW of 28.3 kDa. The protein migrates as 34-37 kDa under reducing (R
	condition due to glycosylation.
Comment:	Ready-to-use Avitag™ biotinylated protein:
	The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized

Handling

Storage:	-20 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Publications	
Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)