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Datasheet for ABIN7121372

**SARS-CoV-2 Spike S1 Protein (BA.3 - Omicron) (His tag)**

## Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike S1
Protein Characteristics:	BA.3 - 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 S1 protein is labelled with His tag.

## Product Details

Purpose:	SARS-CoV-2 Spike S1, His Tag (BA.3/Omicron)
Sequence:	Val 16 - Arg 685
Specificity:	SARS-CoV-2 Spike S1 (BA.3/Omicron)
Characteristics:	SARS-CoV-2 Spike S1, His Tag (BA.3/Omicron) (S1N-C52Hq) is expressed from human 293 cells (HEK293). It contains A67V,H69del,V70del,T95I,G142D,V143del,Y144del,Y145del,N211del,L212I,G339D,S371F,S373P,S375F,D405N,K417N,N452Y mutations. The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.3, GISAID clade: GRA, Nextstrain clade: 20I).
Purity:	>90 % 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 S1
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## Target Details

Abstract:	<a href="#">SARS-CoV-2 Spike S1 Products</a>
Target Type:	Viral Protein
Background:	<p>Synonyms: Spike,S1 protein,Spike glycoprotein Subunit1,S glycoprotein Subunit1,Spike protein S1,</p> <p>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.</p>
Molecular Weight:	76.5 kDa

## Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 76.5 kDa. The protein migrates as 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