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Datasheet for ABIN7121370

SARS-CoV-2 Spike Protein (BA.3 - Omicron, Trimer) (His tag)

Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	BA.3 - Omicron, Trimer
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 tag.

Product Details

Purpose:	SARS-CoV-2 Spike Trimer, His Tag (BA.3/Omicron) (MALS verified)
Sequence:	Val 16 - Pro 1213
Specificity:	SARS-CoV-2 Spike Trimer (BA.3/Omicron)
Characteristics:	SARS-CoV-2 Spike Trimer, His Tag (BA.3/Omicron) (SPN-C5225) is expressed from human 293 cells (HEK293). It contains mutations (A67V, H69del, V70del, T95I, G142D, V143del, Y144del, Y145del, N211del, L212I, G339D, S371F, S373P, S375F, D405N, K417N, N685A, F817P, A892P, A899P, A942P, K986P, V987P). The spike mutations are identified on the SARS-CoV-2 Omicron variant (BA.3) expressed in HEK293 cells (HEK293) with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus. Proline substitutions (F817P) abolish the furin cleavage site, respectively.
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

Abstract: [SARS-CoV-2 Spike Products](#)

Background: Synonyms: Spike,S protein,Spike glycoprotein,S glycoprotein,
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: 137.7 kDa

Application Details

Application Notes: This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 137.7 kDa. The protein migrates as kDa under reducing (R) condition due to glycosylation.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS

Storage: -20 °C

Storage Comment: -20°C
