



[Go to Product page](#)

Datasheet for ABIN7271639

SARS-CoV-2 Spike Protein (BA.2.38 - Omicron, Trimer) (His tag)

Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	BA.2.38 - 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.2.38/Omicron) (MALS verified)
Sequence:	Val 16 - Pro 1213
Characteristics:	<p>SARS-CoV-2 Spike Trimer, His Tag (BA.2.38/Omicron) (SPN-C522g) is expressed from human 293 cells (HEK293). It contains AA Val 16 - Pro 1213 (Accession # QHD43416.1 (T19I, LPP24-26del, A27S, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417T, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K, R683A, R685A, F817P, A892P, A899P, A942P, K986P, V987P).</p> <p>The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: BA.2.38). The recombinant protein is expressed from human 293 cells (HEK293) with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus. Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively.</p>

Product Details

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: 138.0 kDa

Application Details

Application Notes: This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 138.0 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