Datasheet for ABIN7384595

SARS-CoV-2 Spike Protein (Trimer, XBB.1.5 - Omicron) (HRP,His tag)

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Overview

Quantity:	50 µg
Target:	SARS-CoV-2 Spike
Protein Characteristics:	Trimer, XBB.1.5 - 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 protein is labelled with HRP,His tag.

Product Details

Purpose:	SARS-CoV-2 Spike Trimer Protein, His Tag (XBB.1.5/Omicron) (MALS verified)
Characteristics:	SARS-CoV-2 Spike Trimer Protein, His Tag (XBB.1.5/Omicron) is expressed from human 293 cells (HEK293). It contains AA Val 16 - Pro 1213 (Accession # QHD43416.1 (T19I, LPP24-26del, A27S, V83A, G142D, Y144del, H146Q, Q183E, V213E, G252V, G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486P, F490S, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, N764K, D796Y, Q954H, N969K, R683A, R685A, F817P, A892P, A899P, A942P, K986P, V987P). The spike mutations are identified on the SARS-CoV-2 Omicron variant (Pango lineage: XBB.1.5). The recombinant protein is expressed from human 293 cells (HEK293) with T4 fibritin 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. Predicted N-terminus: Val 16

Product Details

Purity:	95,00 %
Endotoxin Level:	1.0 EU per µg
Grade:	MALS verified

Target Details

Target:	SARS-CoV-2 Spike
Abstract:	SARS-CoV-2 Spike Products
Molecular Weight:	137.8 kDa, 160-200 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	0.22 µm filtered solution in PBS with trehalose as protectant.
Storage:	-20 °C
Storage Comment:	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state -70°C for 3 months under sterile conditions after reconstitution.