Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer Protein





Description	
Source	Recombinant Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Val16-Pro1213(A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F). 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.
Accession	QHO60594.1

	cleavage site, respectively.	
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Molecular Weight	The protein has a predicted MW of 136.70 kDa. Due to glycosylation, the protein migrates to 140-180 kDa based on Tris-Bis PAGE result.	
Endotoxin	Less than 1EU per μg by the LAL method.	
Purity	> 95% as determined by Tris-Bis PAGE	

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Formulation Supplied as 0.22µm filtered solution in PBS (pH 7.4).

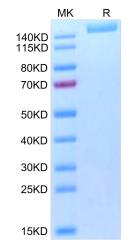
Storage Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

Assay Data

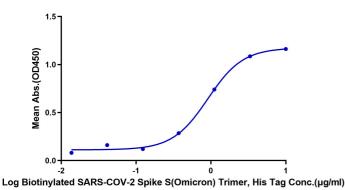
Tris-Bis PAGE



Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated SARS-COV-2 Spike S(Omicron) Trimer, His Tag ELISA 0.05µg Human ACE2, hFc Tag Per Well



Immobilized Human ACE2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated SARS-COV-2 Spike S (Omicron B.1.1.529) Trimer, His Tag with the EC50 of 0.91ug/ml determined by ELISA.