SARS-CoV-2 Spike RBD (Omicron BF.7/BA.4.6) Protein

κλιτυς

Cat. No.	BF7-HM146	
Descripti	ion	
Source		Recombinant SARS-CoV-2 Spike RBD (Omicron BF.7/BA.4.6) Protein is expressed from HEK293 with His tag at the C-Terminus.
		It contains Arg319-Phe541(G339D, R346T, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H).
Accession	า	QHD43416.1
Molecular Weight		The protein has a predicted MW of 25.99 kDa. Due to glycosylation, the protein migrates to 35-43 kDa based on Bis-Tris PAGE result.
Endotoxin	ı	Less than 1 EU per μg by the LAL method.
Purity		> 95% as determined by Bis-Tris PAGE
Fully		> 95% as determined by HPLC
Formulat	tion and Stora	lge
Formulation	on	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstit	ution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage		-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Backgrou	und	
		The ongoing coronavirus disease 2019 (COVID-19) pandemic has prioritized the development of small-animal models for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The resulting mouse-adapted strain at passage 6 (called MASCp6) showed increased infectivity in mouse lung and led to interstitial pneumonia and inflammatory responses in both young and aged mice after intranasal inoculation. Deep sequencing revealed a panel of adaptive mutations potentially associated with the increased virulence. In particular, the N501Y mutation is located at the receptor binding domain (RBD) of the spike protein.

Assay Data



SARS-CoV-2 Spike RBD (Omicron BF.7/BA.4.6) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data





The purity of SARS-CoV-2 Spike RBD (Omicron BF.7/BA.4.6) is greater than 95% as determined by SEC-HPLC.

ELISA Data





Immobilized SARS-CoV-2 Spike RBD (Omicron BF.7/BA.4.6), His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.