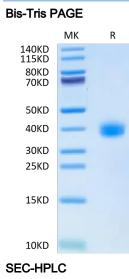
SARS-CoV-2 Spike RBD (Omicron BA.2.38) Protein

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Cat. No.	BA2-HM138	
Descripti	ion	
Source		Recombinant SARS-CoV-2 Spike RBD (Omicron BA.2.38) Protein is expressed from HEK293 with His tag at the C-Terminus.
		It contains Arg319-Phe541(G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417T, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H).
Accessior	า	QHD43416.1
Molecular Weight		The protein has a predicted MW of 26.07 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	ı	Less than 1EU per µg by the LAL method.
Purity		> 95% as determined by Bis-Tris PAGE
Pully		> 95% as determined by HPLC
Formulat	tion and Stora	ge
Formulatio	on	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstit	ution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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

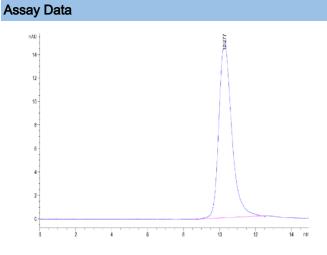


SARS-CoV-2 Spike RBD (Omicron BA.2.38) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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Cat. No. BA2-HM138

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The purity of SARS-CoV-2 Spike RBD (Omicron BA.2.38) is greater than 95% as determined by SEC-HPLC.

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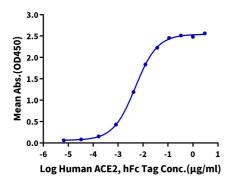
Cat. No. BA2-HM138

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Assay Data

ELISA Data

SARS-COV-2 Spike RBD (Omicron BA.2.38), His Tag ELISA 0.05µg SARS-COV-2 Spike RBD (Omicron BA.2.38), His Tag Per Well



Immobilized SARS-COV-2 Spike RBD (Omicron BA.2.38), His Tag at 0.5μ g/ml (100μ I/WeII) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 4.9ng/ml determined by ELISA.