PRODUCT INFORMATION

Target	S protein RBD
Synonyms	SARS-CoV-2 BA.5 (Omicron) Spike RBD Protein
Description	Recombinant SARS-CoV-2 (Omicron BA.5) S-RBD protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P0DTC2
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	S protein RBD(G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N,N440K, L452R,S477N, T478K, E484A,F486V, Q498R, N501Y, Y505H)(Arg319-Phe541) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 51.4 kDa after removal of the signal peptide. The apparent molecular mass of S-RBD(Omicron BA.5)-hFc is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein is a type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which accounts for recognizing the cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell response.
Usage	Research use only
Conjugate	Unconjugated

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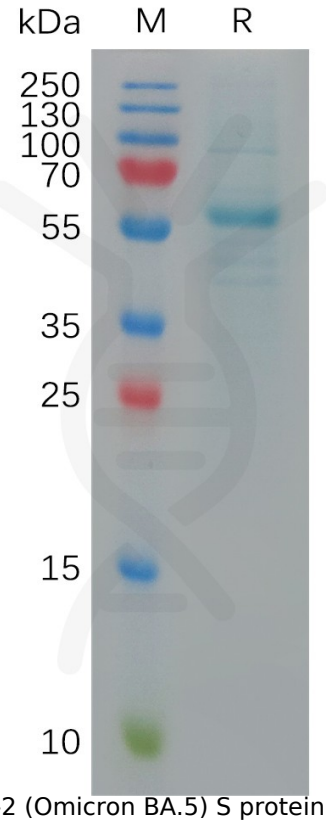


Figure 1. SARS-CoV-2 (Omicron BA.5) S protein RBD, hFc Tag on SDS-PAGE under reducing condition.

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