

## Product datasheet for **TP724139**

### SARS-CoV-2 (Beta) S protein RBD, hFc Tag

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	SARS-CoV-2 (Beta) S protein RBD, hFc Tag
<b>Expression Host:</b>	HEK293
<b>Tag:</b>	C-Human Fc
<b>Predicted MW:</b>	The protein has a predicted molecular mass of 51.3 kDa after removal of the signal peptide. The apparent molecular mass of RBD(K417N, E484K-N501Y)-hFc is approximately 55-70 kDa due to glycosylation.
<b>Purity:</b>	The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.
<b>Reconstitution Method:</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization.
<b>Storage:</b>	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.
<b>Stability:</b>	12 months from date of despatch
<b>Summary:</b>	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.



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