

DESCRIPTION

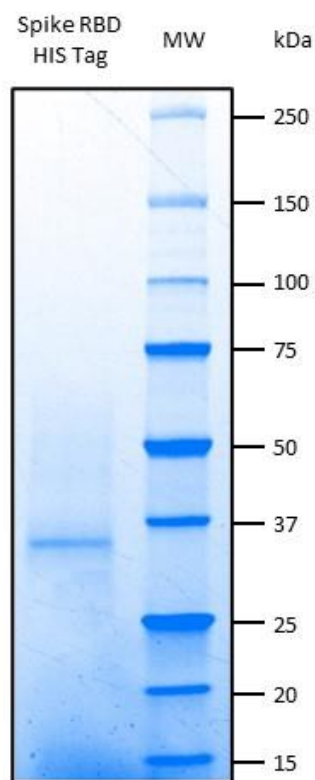
<i>Description</i>	Recombinant Human Coronavirus SARS-CoV-2 Spike Protein S1 subunit, Receptor-Binding Domain (RBD), NCBI Accession Number: MN908947
<i>Sequence</i>	Arg319-Phe541
<i>Expression system</i>	HEK293 cells
<i>Tag</i>	HIS Tag C-Terminus
<i>Purification</i>	Affinity chromatography
<i>Extinction coefficient</i>	33850 M ⁻¹ .cm ⁻¹ Abs 0.1% (=1 g/l) 1.29 assuming all pairs of Cys residues form cystines
<i>Predicted Molecular Weight</i>	26.1 kDa

SPECIFICATIONS

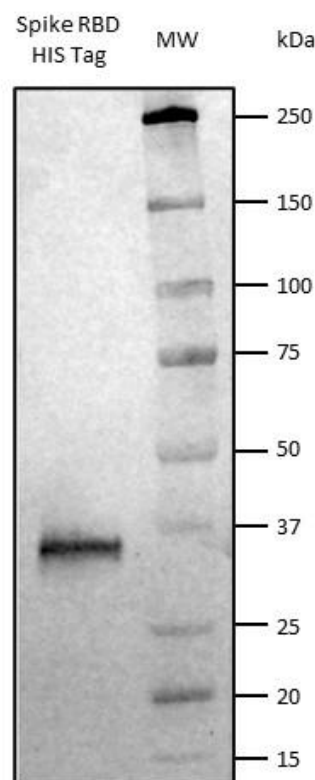
<i>SDS Page</i>	Approx. 30 kDa
<i>Concentration</i>	1 mg/ml
<i>Size</i>	1.0 mg
<i>Purity</i>	>95% by SDS PAGE gel
<i>Formulation</i>	PBS
<i>Activity</i>	Active form: positive binding with recombinant ACE2 Human. Recognized by CR3022 anti RBD recombinant antibody and Covid-19 positive patients serum samples.
<i>Stability and Storage</i>	Store at -20°C. Avoid repeated freeze-thaw cycles

DATA

SDS-PAGE 4-15% under reducing conditions and visualized by Coomassie blue staining showing a band at approx. 30 kDa



Western Blot: Spike RBD HIS Tag detected with anti-HIS-Tag antibody HRP conjugate showing a band at approx. 30 kDa



SARS-CoV-2 Spike Glycoprotein (S1) RBD

Spike protein (S protein) is one of four structural proteins of Coronavirus (SARS-Cov, SARS-Cov-2, MERS amongst other), S protein plays the most important role in viral attachment, fusion and entry, and it serves as a target for development of antibodies, entry inhibitors and vaccines.

In the S protein, the Receptor Binding Domain (RBD) mediates viral entry of SARS-Cov and SARS-Cov-2 into host cells by its interaction with the membrane receptor ACE2 (Angiotensin-converting enzyme 2).

Products Manufactured and Distributed by:

Diaclone SAS

6 Rue Dr Jean-François-Xavier Girod

BP 1985, 25020 Besançon Cedex

France

Tel +33 (0)3 81 41 38 38 Fax +33 (0)3 81 41 36 36

Email: info@diaclone.com www.diaclone.com

Rec SARS-CoV-2 RBD 715-H16-0BU

Version 4 06/05/2021