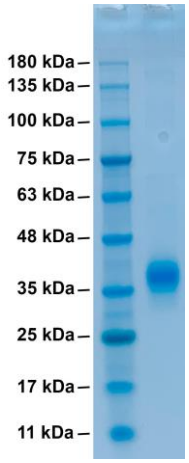
Spike RBD Protein of SARS-CoV-2

CATALOG NUMBER: SCV2-RBD-050P, 50 µg, 1 mg

Introduction	The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019. The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleoprotein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.
Applications	Western blot standard, antibody ELISA, antigen, etc.
Description	Recombinant RBD domain of SARS-CoV-2 spike protein expressed and purified from HEK293 cells. The binding activity has been tested using human ACE2 protein in a functional ELISA assay.
Viral Protein	Spike RBD domain protein (amino acid 319-541) of human SARS-CoV-2 (GenBank No. MN908947) with a C-terminal 6xHis-tag
Storage	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.
Concentration	1 µg/µl in PBS
Endotoxin Level	<0.01 EU per 1 µg of the protein by LAL test
Purity	≥ 95% (by SDS PAGE)



SDS-PAGE: purified recombinant spike RBD protein of SARS-CoV-2

Spike RBD (aa 319-541) Protein (SARS-CoV-2) SEQ:

RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV
RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNCYFPLQSYG
FQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNF**HHHHHHHH**

Tel: 1-800-919-0755 • Fax: 1-240-683-5852 • info@eEnzyme.com • www.eEnzyme.com