

# Recombinant SARS-CoV-2 Spike RBD (His Tag)

Cat. No. bs-46003P

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## Description

<b>Protein Sequence</b>	SARS-CoV-2 S protein RBD is expressed with a His tag and Avi at the C-terminal (Arg319-Asn532).
<b>Source</b>	Mammalian Expression System
<b>Accession</b>	QHD43416.1
<b>Mol wt</b>	The protein has a predicted MW of 27 kDa. Due to glycosylation, the protein migrates to 36-40KDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
<b>Activity assay</b>	Not tested.

## Formulation and Storage

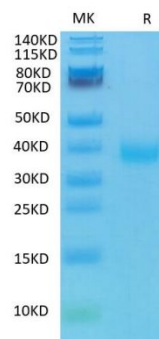
<b>Formulation</b>	Lyophilized powder (Lyophilized from 0.22um filtered solution in 20mM PB (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.)
<b>Storage</b>	The product should be stored at -70°C or -20°C

## Background

The spike protein (S) of coronavirus (CoV) attaches the virus to its cellular receptor, angiotensin-converting enzyme 2 (ACE2). A defined receptor-binding domain (RBD) on S mediates this interaction. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

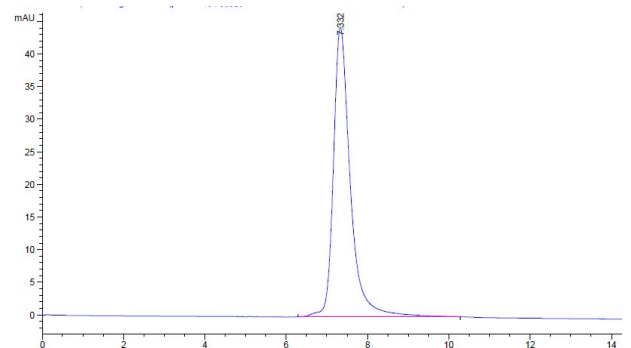
## Assay Data

### Tris-Bis PAGE



Recombinant SARS-CoV-2 S protein RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### HPLC Data



The purity of SARS-CoV-2 S protein RBD is greater than 95% as determined by SEC-HPLC