Biotinylated Recombinant SARS-CoV-2 Spike RBD (His&Avi Tag)

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Cat. No. **bs-46003P-Biotin**

Description

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

Formulation and Storage

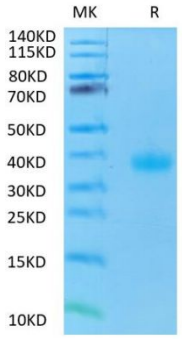
Formulation	Lyophilized powder (Lyophilized from 0.22um filtered solution in 20mM PB (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.)
Storage	The product should be stored at -70℃ or -20℃.

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.

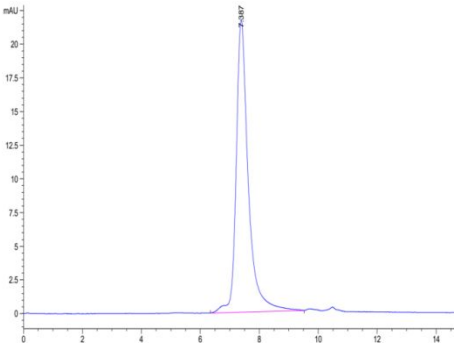
Assay Data

Tris-Bis PAGE



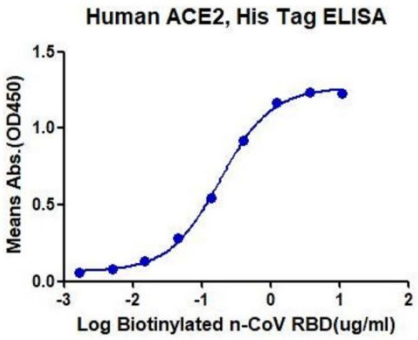
Biotinylated Recombinant SARS-CoV-2 S protein RBD on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

HPLC Data



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

ELISA Data



Immobilized SARS-CoV-2 RBD at 1ug/ml(100ul/Well). Dose response curve for Biotinylated ACE2 with the EC50 of 0.1ug/ml determined by ELISA.