Recombinant SARS-CoV-2 S protein RBD (N354D, D364Y) [His] (DAGC217)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview
SARS-CoV-2 S protein RBD (N354D, D364Y), His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 319 - Phe 541 (Accession # QHD43416.1 (N354D, D364Y)). This protein carries a polyhistidine tag at the C-terminus.

Nature
Recombinant

Expression System
HEK293 Cells

Species
SARS-CoV-2

Purity
>95% as determined by SDS-PAGE.

Conjugate
His

Applications
SDS-PAGE, ELISA

Predicted N terminal
Arg 319

Molecular Weight
The protein has a calculated MW of 27.0 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin
Less than 1.0 EU per ug by the LAL method.

Procedure
None

Format
Lyophilized

Size
100ug, 1mg

Buffer
Lyophilized from 0.22 um filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Preservative
None

Storage
For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:
-20°C to -70°C for 12 months in lyophilized state;
-70°C for 3 months under sterile conditions after reconstitution.

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**BACKGROUND**

**Introduction**
It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

**Keywords**
-SARS-CoV-2 S protein RBD; SARS-CoV-2; SARS-CoV-2 RBD; SARS-CoV-2 S protein; SARS-CoV-2 S RBD