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RBD-S1 Spike Protein (SARS-CoV-2) His Tag Recombinant (HEK293 Expressed)

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| Code | 00706-06-100 |
| Name | RBD-S1 Spike Protein (SARS-CoV-2) His Tag Rec. (HEK293) |
| Lot No. | |
| Size | 100 µg |
| Source | HEK293 |
| Tag | 6x His Tag on C-terminal |
| Purity | >95% in SDS gel |
| Formulation | 100µl per well of 0.5 µg/mL of S1-Spike Protein |
| Carry | 0.05% BSA |
| Storage | 2- 8 ° C |
| Protein ID | YP_009724390.1 |
| MW | 40 KD in SDS-PAGE Gel (due glycosylated) |

Description

SARS-CoV-2 Spike Protein is composed of S1 domain and S2 domain. S1 contains a receptor-binding domain (RBD) that can specifically bind to angiotensin-converting enzyme 2 (ACE2), the receptor on target cells. RBD-S1 Spike Protein (SARS-CoV-2) His Tag recombinant (HEK293 derived) has a predicted molecular mass of 30 KDa. Due to glycosylation, the recombinant RBD-S1 Spike Protein (SARS-CoV-2) His Tag migrates as an approximately 40 kDa band in SDS-PAGE under reduce condition.

Receptor ACE2 Binding Test

This RBD-S1 Spike Protein (SARS-CoV-2) His Tag recombinant (HEK293 derived) (00706-06-50) had been tested by the human soluble ACE2 Fc Fusion (HEK293) pre-coated microplates. Its EC_{50} = 50-100ng/mL.

Formulation

Lyophilized 100 µg of the RBD-S1 Spike Protein (SARS-CoV-2) His Tag (HEK293) in 200 µl of PBS (130mM NaCl, 7mM Na_2HPO_4 , 3mM NaH_2PO_4 , pH 7.4).

Reconstitution & Storage

Add 200 µl Deionized Water to the vial to prepare a working stock solution at 500 µg/mL. Allow to set at least 30 minutes at 4° C, mix well.

Store lyophilized protein at -20° C or -70° C. Lyophilized protein is stable for up to 6 months from date of receipt at - 20° C to -70° C. Upon reconstitution, this protein can be stored at -20° C for a few days or at -70° C in a manual defrost freezer for long term storage (1 month).

AVISCERA BIOSCIENCE, INC
2348 WALSH AVE., SUITE C
SANTA CLARA, CA 95051

USA

TEL: (408) 982 0300

FAX: (408) 982 0301

Sales@AvisceraBioscience.com

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