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

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| Code | 00706-06-10B |
| Name | RBD-S1 Spike Protein (SARS-CoV-2) His Tag Rec. (HEK293) Biotinylated |
| Lot No. | |
| Size | 10 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. This protein was conjugated with Biotin and dialysis in PBS.

Receptor ACE2 Binding Test

This RBD-S1 Spike Protein (SARS-CoV-2) His Tag recombinant (HEK293 derived) Biotinylated (00706-06-10B) had been tested by the human soluble ACE2 Fc Fusion (HEK293) pre-coated microplates. Its EC₅₀= 50-100ng/mL.

Formulation

Lyophilized 10 µg of the Biotinylated RBD-S1 Spike Protein (SARS-CoV-2) His Tag (HEK293) in 100 µl of PBS (130mM NaCl, 7mM Na₂HPO₄, 3mM NaH₂PO₄, pH 7.4). Carry is 0.05% BSA.

Reconstitution & Storage

Add 100 µl Deionized Water to the vial to prepare a working stock solution at 100 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).

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