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

Code	00706-06-10
Name	RBD-S1 Spike Protein (SARS-Co 2) His Tag Rec. (HEK293)
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-PAC 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 10 μg of the RBD-S1 Spike Protein (SARS-CoV-2) His Tag (HEK293) in 50 μl of PBS (130mM NaCl, 7mM Na_2HPO_4, 3mM NaH_2PO_4, pH 7.4).

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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