

Recombinant SARS-COV-2 Spike S1 Protein, His Tag

产品信息

产品名称	产品编号	规格
Recombinant SARS-COV-2 Spike S1 Protein, His Tag	94030ES25	25 µg
	94030ES60	100 µg
	94030ES76	500 µg
	94030ES80	1 mg

产品描述

SARS-CoV-2 Spike Protein (S Protein) is a glycoprotein that mediates membrane fusion and viral entry. The S Protein of the SARS-CoV-2 virus binds Angiotensin-Converting Enzyme 2 (ACE-2), but with much higher affinity and faster binding kinetics. Polyclonal antibodies to the RBD of the SARS-CoV-2 S1 subunit have been shown to inhibit interaction with the ACE-2 receptor, confirming RBD as an attractive target for vaccinations or antiviral therapy. There is also promising work showing that the RBD may be used to detect presence of neutralizing antibodies present in a patient's bloodstream, consistent with developed immunity after exposure to the SARS-CoV-2 virus. Lastly, it has been demonstrated the S Protein can invade host cells through the CD147/EMMPRIN receptor and mediate membrane fusion.

产品性质

别名	S1 protein; Spike protein S1; Spike,S1 protein; S glycoprotein Subunit1
Accession	QHO60594.1
表达区间及表达系统	Recombinant SARS-COV-2 Spike S1 Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Gln14-Arg683.
分子量	Approximately 76.1 kDa. Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	ELISA Data: Immobilized SARS-COV-2 Spike S1, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 19.4ng/ml determined by ELISA.
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C保存，一年有效期。

复溶后，-20 °C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

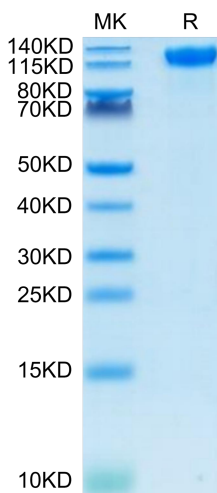
建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

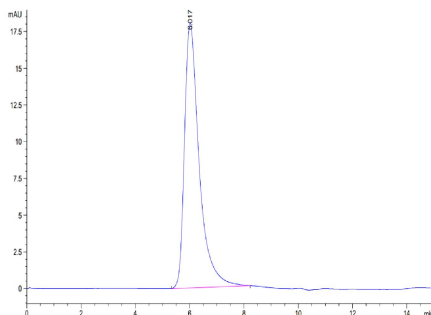
产品数据

Tris-Bis PAGE



SARS-COV-2 Spike S1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

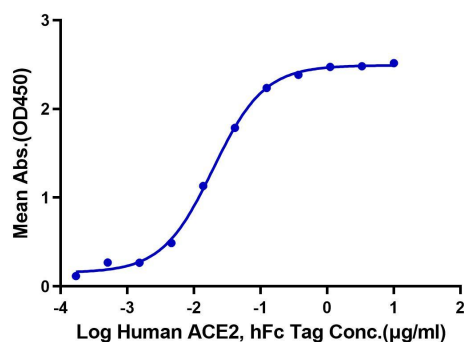
SEC-HPLC



The purity of SARS-COV-2 Spike S1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike S1, His Tag ELISA 0.1 μ g SARS-COV-2 Spike S1, His Tag Per Well



Immobilized SARS-COV-2 Spike S1, His Tag at 1 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 19.4ng/ml determined by ELISA.