

Recombinant SARS-COV-2 Spike S1 (Omicron)(His Tag)

产品信息

产品名称	产品编号	规格
Recombinant SARS-COV-2 Spike S1 (Omicron)(His Tag)	94032ES25	25 µg
	94032ES60	100 µg
	94032ES76	500 µg
	94032ES80	1 mg

产品描述

SARS-CoV-2, which causes the global pandemic coronavirus disease 2019 (Covid-19), belongs to a family of viruses known as coronaviruses. The SARS-CoV-2 S protein is a glycoprotein that mediates membrane fusion and viral entry. The RBD of SARS-CoV-2 binds a metalloproteinase, angiotensin-converting enzyme 2 (ACE-2). Several emerging SARS-CoV-2 genomes have been identified including the Omicron, or B.1.1.529, variant. First identified in November 2021 in South Africa, the Omicron variant quickly became the predominant SARS-CoV-2 variant and is considered a variant of concern (VOC). The Omicron variant contains 15 mutations in RBD domain that potentially affect viral fitness and transmissibility. The majority of the mutations are involved in ACE-2 binding and Omicron binds ACE-2 with greater affinity, potentially explaining its increased transmissibility. Several of these mutations are also identified in facilitating immune escape and reducing neutralization activity to several monoclonal antibodies.

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 (Omicron B.1.1.529) Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Gln14-Arg683(A67V, HV69-70del, T95I, G142D, VYY143-145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H).
分子量	Approximately 76.38 kDa. Due to glycosylation, the protein migrates to 130-145 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	ELISA Data: Immobilized Human ACE2, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag with the EC50 of 0.8µg/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 8% 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至-80°C保存，一年有效期。

复溶后，-20 至 -80°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。

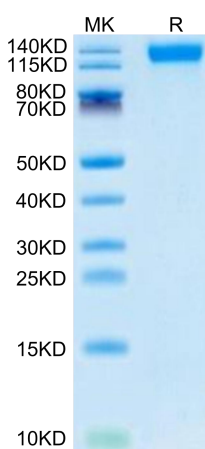
建议第一次使用时分装冻存，避免反复冻融。

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！

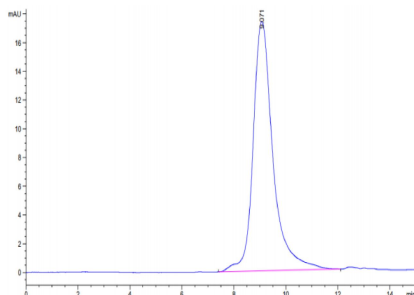
产品数据

Tris-Bis PAGE



SARS-COV-2 Spike S1 (Omicron B.1.1.529) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

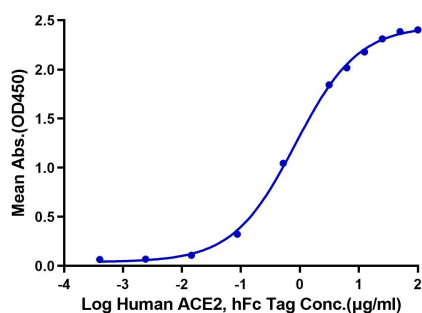
SEC-HPLC



The purity of SARS-COV-2 Spike S1 (Omicron B.1.1.529) is greater than 95% as determined by SEC-HPLC.

ELISA Data

SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag ELISA
 0.2µg SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag Per Well



Immobilized Human ACE2, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for SARS-COV-2 Spike S1 (Omicron B.1.1.529) , His Tag with the EC50 of 0.8µg/ml determined by ELISA.