

## Recombinant SARS-COV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) Protein, His Tag

### 产品信息

产品名称	产品编号	规格
Recombinant SARS-COV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) Protein, His Tag	94046ES25	25 µg
	94046ES60	100 µg
	94046ES76	500 µg
	94046ES80	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	QHD43416.1
表达区间及表达系统	Recombinant SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) Protein is expressed from Expi293 with His tag at the C-terminal. It contains Gln14-Arg683(T19I, L24S, PPA25-27del, HV69-70del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H).
分子量	Approximately 75.76 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	<b>ELISA Data:</b> Immobilized SARS-CoV-2 Spike S1 (Omicron BA.4/BA.5/BA.5.2) , His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 85.6ng/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).
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！