

## Recombinant Human CA9/Carbonic Anhydrase IX (His-Avi Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human CA9/Carbonic Anhydrase IX (His-Avi Tag)	94135ES25	25 µg
	94135ES60	100 µg
	94135ES76	500 µg
	94135ES80	1 mg

### 产品描述

Carbonic Anhydrase (CA) catalyzes the reversible reaction of  $\text{CO}_2 + \text{H}_2\text{O} = \text{HCO}_3^- + \text{H}^+$ , which is fundamental to many processes such as respiration, renal tubular acidification and bone resorption. Topics in the CA meeting ranged from use of CAs as markers for tumor and hypoxia in clinic, as nutritional supplement in milk, and as a tool for  $\text{CO}_2$  removal and mosquito control in industry. CA9, also known as membrane antigen MN and renal cell carcinoma (RCC)-associated antigen G250, is a transmembrane enzyme expressed primarily in carcinoma cells. It is one of the best markers for hypoxia and for RCC. rhCA9 corresponds to the extracellular portion of human CA9.

### 产品性质

别名	CA9; CAIX; CA-IX; EC 4.2.1.1; G250; MN; P54/58N; PMW1; RCC
Uniprot No.	Q16790
表达区间及表达系统	Recombinant Human CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Gln38-Asp414.
分子量	Approximately 43.7 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	<b>ELISA Data:</b> Immobilized Human CA9, His Tag at 0.9µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 18.8ng/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 50mM Tris, 150mM NaCl (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。

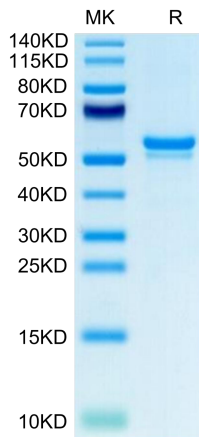
建议第一次使用时分装冻存，避免反复冻融。

## 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！

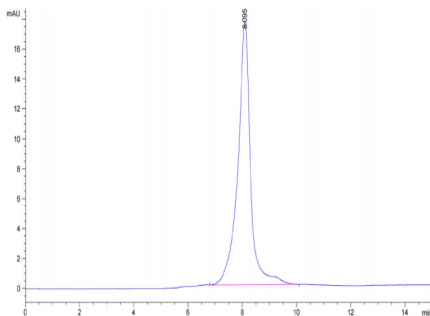
## 产品数据

### Tris-Bis PAGE



Human CA9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

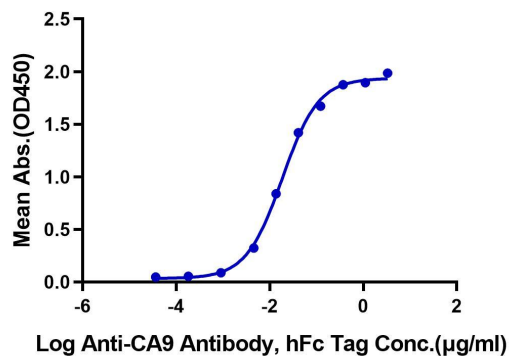
### SEC-HPLC



The purity of Human CA9 is greater than 95% as determined by SEC-HPLC.

### ELISA Data

**Human CA9, His Tag ELISA**  
0.09 $\mu$ g Human CA9, His Tag Per Well



Immobilized Human CA9, His Tag at 0.9 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 18.8ng/ml determined by ELISA.