

## Recombinant Human CEACAM-5/CD66e (His-Avi Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human CEACAM-5/CD66e (His-Avi Tag)	93096ES20	20 µg
	93096ES60	100 µg
	93096ES76	500 µg
	93096ES80	1 mg

### 产品描述

CEACAM-5, also known as CEA and CD66e, belongs to the large family of CEACAM and pregnancy specific glycoproteins. CEACAM molecules are either transmembrane or GPI-linked, and are differentially expressed between species. Orthologs of human CEACAM-5 have not been described in other species. CEACAM-5, which is expressed primarily by epithelial cells, consists of an N-terminal Ig-like V-set domain followed by six Ig-like C2-set domains and a GPI anchor. CEACAM-5 is synthesized as a 180 kDa, variably glycosylated molecule of which approximately 60% is carbohydrate. CEACAM-5 functions as a calcium-independent adhesion molecule through homophilic and heterophilic interactions with CEACAM-1. CEACAM-5 is restricted to the apical face of intestinal epithelial cells in the adult but is more diffuse during embryonic development and in tumors. This is consistent with a role in the development and maintenance of epithelial architecture. CEACAM-5 is up-regulated in a wide variety of human tumors and is a commonly used cancer marker. It promotes tumor cell migration, invasion, adhesion, and metastasis.

### 产品性质

别名 (Synonyms)	CEACAM-5; CD66e; CEA; Meconium antigen 100; Carcinoembryonic; CEACD66e; DKFZp781M2392
Uniprot No.	Q8N4D0
表达区间及表达系统 (Source)	Recombinant Human CEACAM-5/CD66e Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Lys35-Ala685.
分子量(Molecular Weight)	The protein has a predicted MW of 74.2 kDa. Due to glycosylation, the protein migrates to 115-150 kDa based on Tris-Bis PAGE result.
外观(Physical Appearance)	Sterile Filtered White lyophilized (freeze-dried) powder.
纯度 (Purity)	> 95% as determined by SDS-PAGE and HPLC
活性 (Activity)	<b>1.ELISA Data:</b> Immobilized Human CEACAM-5 at 0.5µg/ml (100µl/well). Dose response curve for Anti-CEACAM Antibody, hFc Tag with the EC <sub>50</sub> of 14.8ng/ml determined by ELISA. <b>2.SPR Data:</b> Human CEACAM-5, His Tag captured on CM5 Chip via Anti-His Antibody can bind Anti-CEACAM5 Antibody, hFc Tag with an affinity constant of 0.12nM as determined in SPR assay (Biacore T200).
内毒素 (Endotoxin)	< 1.0 EU per 1µg of the protein by the LAL method.
制剂 (Formulation)	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶 (Reconstitution)	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。

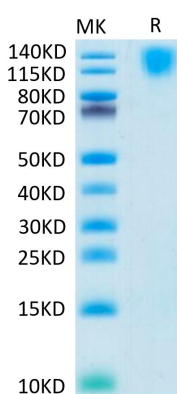
建议第一次使用时分装冻存，避免反复冻融。

## 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！

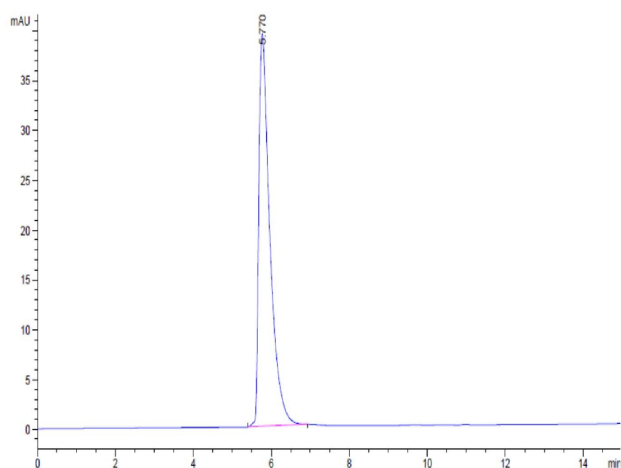
## 产品数据

### Tris-Bis PAGE



Human CEACAM-5 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

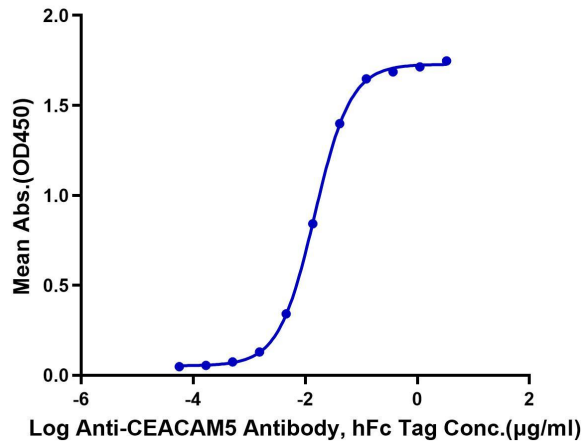
### SEC-HPLC



The purity of Human CEACAM-5 is greater than 95% as determined by SEC-HPLC.

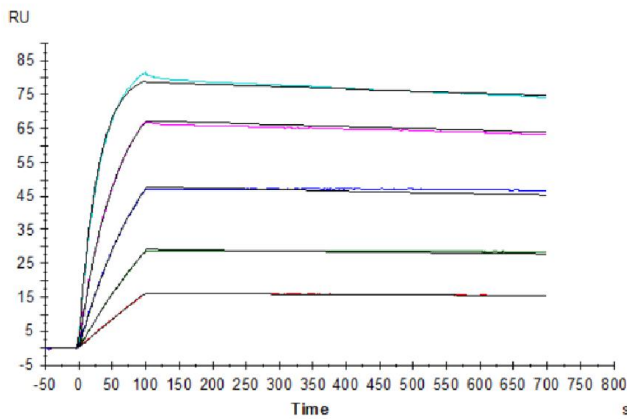
## ELISA Data

### Human CEACAM-5, His Tag ELISA 0.05 $\mu$ g Human CEACAM-5, His Tag Per Well



Immobilized Human CEACAM-5 at 0.5 $\mu$ g/ml (100 $\mu$ l/well).  
Dose response curve for Anti-CEACAM Antibody, hFc Tag  
with the EC<sub>50</sub> of 14.8ng/ml determined by ELISA.

## SPR Data



Human CEACAM-5, His Tag captured on CM5 Chip via Anti-His  
Antibody can bind AntiCEACAM5 Antibody, hFc Tag with an  
affinity constant of 0.12nM as determined in SPR assay (Biacore  
T200).