

## Recombinant Human CD30/TNFRSF8 (His-Avi Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human CD30/TNFRSF8 (His-Avi Tag)	93093ES20	20 µg
	93093ES60	100 µg
	93093ES76	500 µg
	93093ES80	1 mg

### 产品描述

CD30, also known as Ki-1 antigen and TNFRSF8, is a 120 kDa type I transmembrane glycoprotein belonging to the TNF receptor superfamily. Mature human CD30 consists of a 361 aa extracellular domain (ECD) with six cysteine-rich repeats, a 28 aa transmembrane segment, and a 188 aa cytoplasmic domain. In contrast, mouse and rat CD30 lack 90 aa of the ECD and contain only three cysteine-rich repeats. Within common regions of the ECD, human CD30 shares 53% and 49% aa sequence identity with mouse and rat CD30, respectively. Alternate splicing of human CD30 generates an isoform that includes only the C-terminal 132 aa of the cytoplasmic domain. CD30 is normally expressed on antigen-stimulated Th cells and B cells. However, it is upregulated in Hodgkin's disease (on Reed-Sternberg cells), other lymphomas, chronic inflammation, and autoimmunity. CD30 binds to CD30 Ligand/TNFSF8 which is expressed on activated Th cells, monocytes, granulocytes and medullary thymic epithelial cells. CD30 signaling costimulates antigen-induced Th0 and Th2 proliferation and cytokine secretion but favors a Th2-biased immune response. In the absence of antigenic stimulation, it can still induce T cell expression of IL-13. CD30 contributes to thymic negative selection by inducing the apoptotic cell death of CD4+CD8+ T cells.

### 产品性质

别名 (Synonyms)	CD30; CD30KI-1; CD30L receptor; TNFRSF8; D1S166EKi-1; CD30KI-1
Uniprot No.	P28908-1
表达区间及表达系统 (Source)	Recombinant Human CD30/TNFRSF8 Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Phe19-Lys379.
分子量(Molecular Weight)	The protein has a predicted MW of 41.3 kDa. Due to glycosylation, the protein migrates to 68-95 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>ELISA Data:</b> Immobilized Human CD30, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD30 Ligand, mFc Tag with the EC <sub>50</sub> of 0.16µg/ml determined by ELISA.
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。

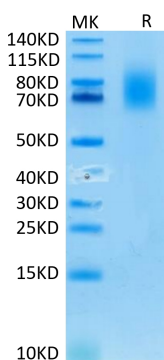
建议第一次使用时分装冻存，避免反复冻融。

## 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！

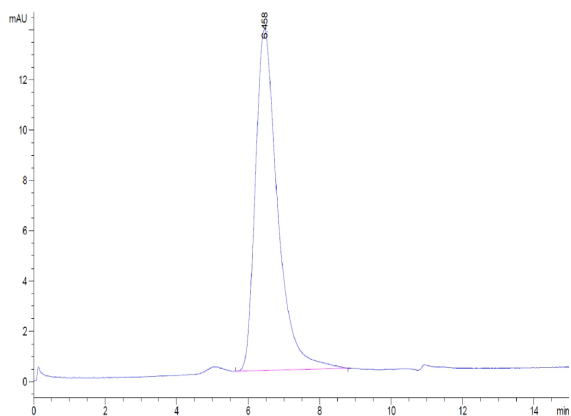
## 产品数据

### Tris-Bis PAGE



Human CD30 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

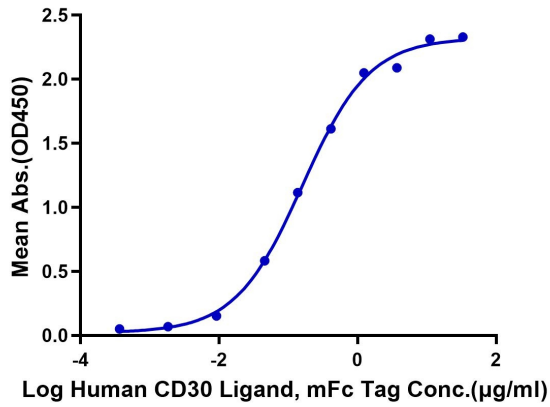
### SEC-HPLC



The purity of Human CD30 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Human CD30, His Tag ELISA 0.1 $\mu$ g Human CD30, His Tag Per Well



Immobilized Human CD30, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Human CD30 Ligand, mFc Tag with the EC<sub>50</sub> of 0.16 $\mu$ g/ml determined by ELISA.