

## Biotinylated Recombinant Human 4-1BB/TNFRSF9 (His-Avi Tag)

### 产品信息

产品名称	产品编号	规格
Biotinylated Recombinant Human 4-1BB/TNFRSF9 (His-Avi Tag)	93576ES25	25 µg
	93576ES60	100 µg
	93576ES76	500 µg
	93576ES80	1 mg

### 产品描述

4-1BB, also known as CD137 and TNFRSF9, is an approximately 30 kDa transmembrane glycoprotein in the TNF receptor superfamily. 4-1BB functions in the development and activation of multiple immune cells. Mature human 4-1BB consists of a 163 amino acid (aa) extracellular domain (ECD) with four TNFR cysteine-rich repeats, a 27 aa transmembrane segment, and a 42 aa cytoplasmic domain. 4-1BB is expressed as a disulfide-linked homodimer on various populations of activated T cell including CD4+, CD8+, memory CD8+, NKT, and regulatory T cells as well as on myeloid and mast cell progenitors, dendritic cells, mast cells, and bacterially infected osteoblasts. 4-1BB activation enhances CD8+ T cell and NK cell mediated anti-tumor immunity. It also contributes to the development of inflammation in high fat diet-induced metabolic syndrome. Soluble forms of 4-1BB and 4-1BB Ligand circulate at elevated levels in the serum of rheumatoid arthritis and hematologic cancer patients, respectively.

### 产品性质

别名	CD137; TNFRSF9; 4-1BB ligand receptor; 41BB; 4-1BB; CDw137; FLJ43501; ILA; T cell antigen ILA
Uniprot No.	Q07011
表达区间及表达系统	Recombinant Biotinylated Human 4-1BB/TNFRSF9 Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Leu24-Gln186.
分子量	Approximately 20.2 kDa. Due to glycosylation, the protein migrates to 35-45 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 4-1BB Ligand Trimer, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human 4-1BB, His Tag with the EC50 of 0.58µg/ml determined by ELISA.
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22 µm 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！

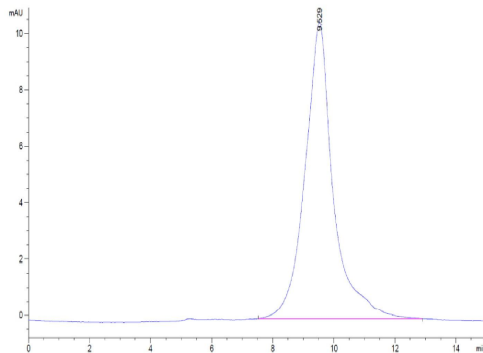
## 产品数据

### Tris-Bis PAGE



Biotinylated Human 4-1BB on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

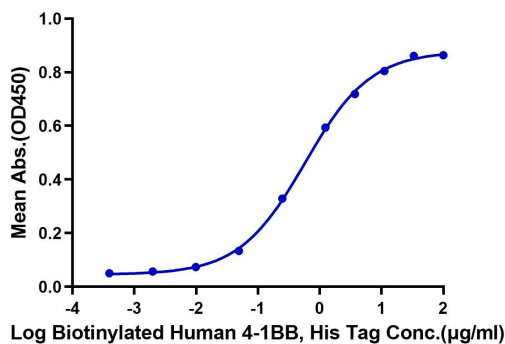
### SEC-HPLC



The purity of Biotinylated Human 4-1BB is greater than 95% as determined by SEC-HPLC.

### ELISA Data

**Biotinylated Human 4-1BB, His Tag ELISA**  
0.05 $\mu$ g Human 4-1BB Ligand Trimer, hFc Tag Per Well



Immobilized Human 4-1BB Ligand Trimer, hFc Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human 4-1BB, His Tag with the EC50 of 0.58 $\mu$ g/ml determined by ELISA.