Datasheet for ABIN7273925

# CD137 Protein (AA 24-186) (Fc-Avi Tag,Biotin)

3 Images

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## Overview

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| Quantity: | 100 µg |
| Target: | CD137 (TNFRSF9) |
| Protein Characteristics: | AA 24-186 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CD137 protein is labelled with Fc-Avi Tag,Biotin. |

## Product Details

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| Purpose: | Biotinylated Human 4-1BB/TNFRSF9 Protein |
| Sequence: | Leu24-Gln186 |
| Characteristics: | Recombinant Biotinylated Human 4-1BB/TNFRSF9 Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus.It contains Leu24-Gln186. |
| Purity: | > 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1EU per µg by the LAL method. |
| Biological Activity Comment: | Immobilized Human 4-1BB Ligand (Trimer) , His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB, hFc Tag with the EC50 of 38.2ng/ml determined by ELISA. See testing image for detail. |

## Target Details

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| Target: | CD137 (TNFRSF9) |
| Alternative Name: | 4-1BB (TNFRSF9 Products) |
| Background: | 4-1BB, is also known as CD137, is a type 2 transmembrane glycoprotein receptor belonging to the TNF superfamily.CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, B cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. |
| Molecular Weight: | 45.7 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result. |
| UniProt: | Q07011 |
| Pathways: | Cancer Immune Checkpoints |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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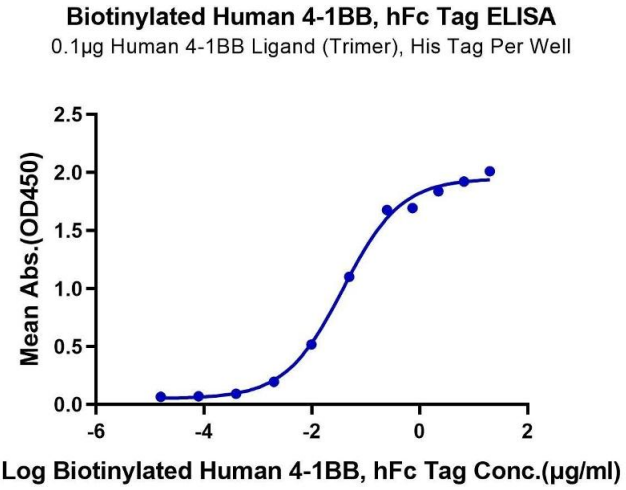
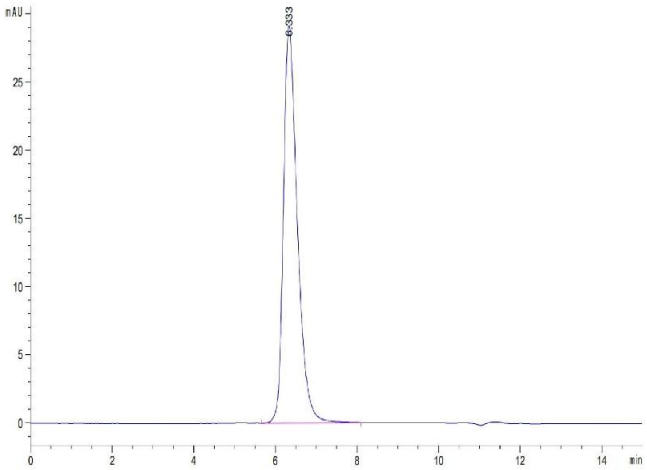
| Format: | Lyophilized |
| Reconstitution: | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water. |
| Buffer: | Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | -20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Expiry Date: | 12 months |



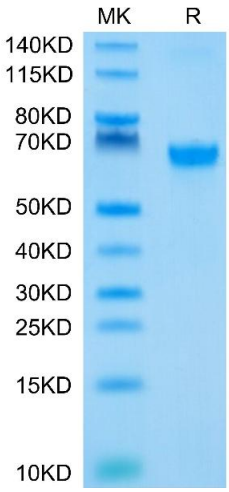

## ELISA

**Image 1.** Immobilized Human 4-1BB Ligand (Trimer), His Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB, hFc Tag with the EC50 of 38.2 ng/mL determined by ELISA.




## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Biotinylated Human 4-1BB is greater than 95 % as determined by SEC-HPLC.




## SDS-PAGE

**Image 3.** Biotinylated Human 4-1BB on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .