

Datasheet for ABIN6972935

**CD137 Protein (AA 24-186) (His tag)**[Go to Product page](#)**2** Images

## Overview

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Quantity:                     | 100 µg                                       |
| Target:                       | CD137 (TNFRSF9)                              |
| Protein Characteristics:      | AA 24-186                                    |
| Origin:                       | Human                                        |
| Source:                       | HEK-293 Cells                                |
| Protein Type:                 | Recombinant                                  |
| Biological Activity:          | Active                                       |
| Purification tag / Conjugate: | This CD137 protein is labelled with His tag. |

## Product Details

|                  |                                                        |
|------------------|--------------------------------------------------------|
| Characteristics: | Human 4-1BB / TNFRSF9 Protein, His Tag (MALS verified) |
| Purity:          | >90 % as determined by SDS-PAGE.                       |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method.             |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CD137 (TNFRSF9)                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Name: | 4-1BB ( <a href="#">TNFRSF9 Products</a> )                                                                                                                                                                                                                                                                                                                                     |
| Background:       | 4-1BB is also known as CD137, tumor necrosis factor receptor superfamily member 9 (TNFRSF9), induced by lymphocyte activation (ILA), is a co-stimulatory molecule of the tumor necrosis factor (TNF) receptor 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 |

## Target Details

cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. The best characterized activity of CD137 is its costimulatory activity for activated T cells. Crosslinking of CD137 enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice. CD137 can enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, 4-1BB/4-1BBL co-stimulatory pathway has been shown to augment secondary CTL responses to several viruses, and meanwhile augment anti-tumor immunity. 4-1BB thus is a promising candidate for immunotherapy of human cancer. CD137 has been shown to interact with TRAF2.

Molecular Weight: 19.2 kDa

NCBI Accession: [NP\\_001552](#)

Pathways: [Cancer Immune Checkpoints](#)

## Application Details

Application Notes: MALS verified

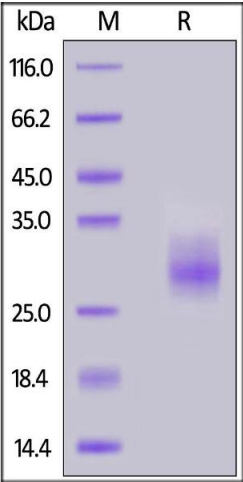
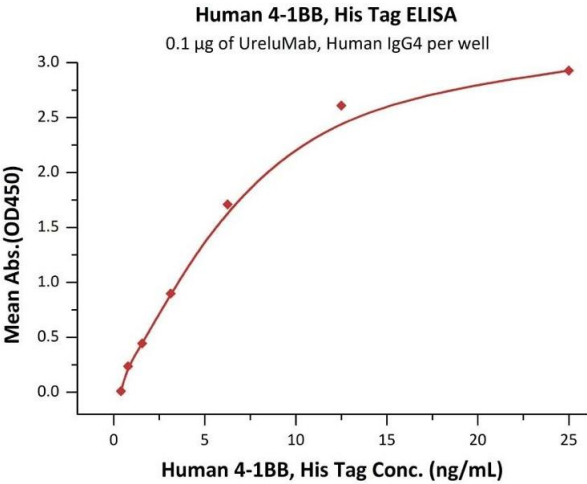
Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C



**ELISA**

**Image 1.** Immobilized Human 4-1BB Ligand (71-254), Fc Tag, active trimer (ABIN6938928,ABIN6950963) at 1 µg/mL (100 µL/well) can bind Human 4-1BB, His Tag (ABIN6972935) with a linear range of 1-20 ng/mL (QC tested).

**SDS-PAGE**

**Image 2.** Human 4-1BB, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .