

# Recombinant Human 4-1BB/TNFRSF9 Protein (Fc Tag)

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by Elabscience

Catalog Number: PKSH032026

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

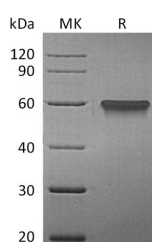
## Description

|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | CD137; ILA; TNFRSF9; 4-1BB ligand receptor; CDw137; T-cell antigen 4-1BB homolog; T-cell antigen ILA                                                    |
| <b>Species</b>                     | Human                                                                                                                                                   |
| <b>Expression Host</b>             | HEK293 Cells                                                                                                                                            |
| <b>Sequence</b>                    | Leu24-Gln186                                                                                                                                            |
| <b>Accession</b>                   | Q07011                                                                                                                                                  |
| <b>Calculated Molecular Weight</b> | 44.2 kDa                                                                                                                                                |
| <b>Observed molecular weight</b>   | 58 kDa                                                                                                                                                  |
| <b>Tag</b>                         | C-Fc                                                                                                                                                    |
| <b>Bioactivity</b>                 | Immobilized Human 4-1BBL-His (Cat: PKSH032023) at 10 µg/ml (100 µl/well) can bind Human 4-1BB-Fc. The ED <sub>50</sub> of Human 4-1BB-Fc is 16.8 ng/ml. |

## Properties

|                       |                                                                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                         |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                    |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.              |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                    |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                       |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Tumor necrosis factor receptor superfamily member 9 (TNFRSF9); also known as CD137 and 4-1BB; is an inducible T cell surface protein belonging to the tumor necrosis factor receptor superfamily. It is a single-pass type I membrane protein which contains 4 TNFR-Cys repeats. The human and mouse proteins share 60% amino acid sequence identity. CD137 is expressed by mesenchymal cells; including endothelial cells; chondrocytes; and cells of the central nervous system. CD137 is also broadly expressed by cells of the human immune system; is broadly expressed by cells of the

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human immune system; including activated CD8+ and CD4+ T cells; activated natural killer (NK) cells; follicular dendritic cells (FDCs) and monocytes. CD137 has diverse roles in the immune response; the one key function is to promote the survival of both T cells and dendritic cells by binding the cognate ligand CD137L (4-1BBL).

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