# Recombinant Mouse 4-1BB/TNFRSF9 Protein (aa 1-211, Fc

### Tag)

Catalog Number: PKSM040474



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

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Descri	ntion
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**Synonyms** 4-1BB;A930040I11Rik;AA408498;AI325004;Cd137;CDw137;ILA;Ly63;Secreted

CD137 antigen;Tumor necrosis factor receptor superfamily member 9;Tnfrsf9

**Species** Mouse

Expression Host HEK293 Cells
Sequence Met 1-Leu 211
Accession NP\_001070976.1

Calculated Molecular Weight 47.0 kDa
Tag C-hFc

**Bioactivity** Immobilized mouse His-TNFSF9 at 10 μg/ml (100 μl/well) can bind mouse

TNFRSF9-Fc, The EC50 of mouse TNFRSF9-Fc is 12.0-29.0 ng/ml.

#### **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** 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.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4

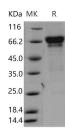
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 90 % as determined by reducing SDS-PAGE.

#### **Background**

CD137 (also known as 4-1BB) is a surface co-stimulatory glycoprotein originally described as present on activated T lymphocytes, which belongs to the tumor necrosis factor (TNF) receptor superfamily. It is expressed mainly on activated CD4+ and CD8+ T cells, and binds to a high-affinity ligand (4-1BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4-1BB is associated with the tumor necrosis factor receptor—associated factors (TRAFs), the adaptor protein which mediates downstream signaling events including the activation of NF-kappaB and cytokine production. 4-1BB signaling either by binding to 4-1BBL or by antibody ligation

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delivers signals for T-cell activation and growth, as well as monocyte proliferation and B-cell survival, and plays an important role in the amplification of T cell-mediated immune responses. In addition, CD137 and CD137L are expressed in different human primary tumor tissues, suggesting that they may influence the progression of tumors. Crosslinking of CD137 on activated T cells has shown promise in enhancing anti-tumor immune responses in murine models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials.

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