

A Reliable Research Partner in Life Science and Medicine

## Recombinant Mouse Tnfrsf9 Protein(Fc Tag)

Catalog Number: PDMM100081

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

#### **Description**

**Species** Mouse

Source Mammalian-derived Mouse Tnfrsf9 protein Val24-Leu187, with an C-terminal Fc

Calculated MW 42.93 kDa Observed MW 50-60 kDa Accession P20334

**Bio-activity** Not validated for activity

#### **Properties**

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

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 Storage

°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.

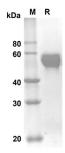
This product is provided as lyophilized powder which is shipped with ice packs. Shipping Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Formulation

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

#### Data



SDS-PAGE analysis of Mouse Tnfrsf9 proteins, 2 µg/lane of Recombinant Mouse Tnfrsf9 proteins was resolved with an SDS-PAGE under reducing conditions, showing bands at 42.93KD

### Background

# Elabscience®

#### **Elabscience Bionovation Inc.**

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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 an 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 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. Soluble forms of CD137 (sCD137) are generated by differential splicing. sCD137 can bind to CD137 ligand to antagonize the costimulatory activities of the membrane-bound CD137 and reduce T cell proliferation and IL-2 secretion.

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