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Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein

Catalog No.: RP01560 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21942	Q8R037

Tags
C-hFc

Synonyms
4-1BB ;CD137 ;CDw137 ;ILA;TNFRSF9;4-1BB ;CD137 ;CDw137 ;ILA;TNFRSF9

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
46.03 kDa	60-70 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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 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.

Basic Information

Description
Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val24-Leu211) of mouse TNFRSF9/4-1BB/CD137 (Accession #NP_001070976.1) fused with a hFc tag at the C-terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse TNFSF9(Catalog: RP00766) at 5μg/mL (100 μL/well) can bind Mouse TNFRSF9/4-1BB/CD137 (Catalog: RP01560) with a linear range of 0.005-1.41 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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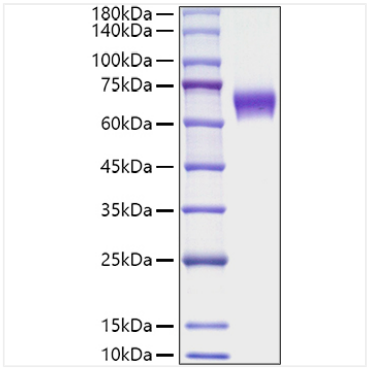
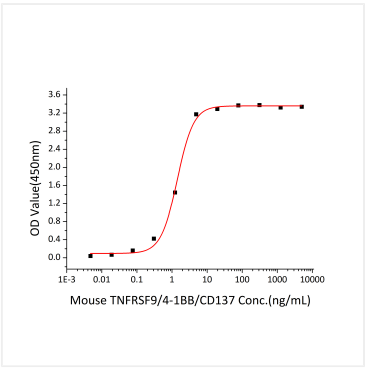
Validation Data



Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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