Recombinant Mouse Tnfrsf9 protein, C-rFc Tag

Product Information

Cat	*IMP-490*
Official Symbol	*Tnfrsf9*
Product Overview	*Recombinant Mouse Tnfrsf9(NP_001070977.1) (Met1-Leu211) was expressed in HEK293, fused with the Fc region of rabbit IgG at the C-terminus.*
Description	*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 CD 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. 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.*
Expression System	*HEK293*
Species	*Mouse*
Tag	*C-rFc Tag*
Predicted N Terminal	*VAL 24*
Form	*Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.*
Molecular Mass	*The recombinant mouse Tnfrsf9 consists of 419 amino acids and predicts a molecular mass of 46.1 kDa.*
Protein length	*Met1-Leu211*
Endotoxin	*< 1.0 EU per μg protein as determined by the LAL method.*

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Purity	*> 90 % as determined by SDS-PAGE.*
Storage	*Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.*
Reconstitution	*It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.*

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