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Tnfrsf10b
Recombinant Mouse TRAIL R2 / CD262 / TNFRSF10B (His & Fc Tag)

Catalog No.	CRM610A-HisFc	**Quantity:**	100 µg
	CRM610B-HisFc		200 µg

Alternate Names: Tumor necrosis factor receptor superfamily member 10B, Death receptor 5, MK, CD262

Description: Tumor necrosis factor receptor superfamily, member 10b (CD262) is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF1/TRAIL/APO-2L), and transduces an apoptosis signal. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. CD262 was purified independently as the only receptor for TRAIL detectable on the surface of two different human cell lines that undergo apoptosis upon stimulation with TRAIL. CD262 contains two extracellular cysteine-rich repeats, typical for TNF receptor (TNFR) family members, and a cytoplasmic death domain. CD262 mediates apoptosis via the intracellular adaptor molecule FADD/MORT1. TRAIL receptors can signal both death and gene transcription, functions reminiscent of those of TNFR1 and TRAMP, two other members of the death receptor family. Defects in CD262 may be a cause of head and neck squamous cell carcinomas.

UniProt ID: Q9QZM4

Accession Number: NP_064671.2

Protein Construction: A DNA sequence encoding the extracellular domain of mouse TNFRSF10B (Met 1-Ser 177) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmTNFRSF10B/Fc is a disulfide-linked homodimer. The reduced monomer consists of 373 aa with a predicted MW of 41.8 kDa and migrates at ~50-55 kDa in SDS-PAGE under reducing conditions, due to glycosylation.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: Immobilized human TNFSF10 at 10 µg/ml (100 µl/well) can bind mouse TNFRSF10B-Fch, The EC50 of mouse TNFRSF10B-Fch is 0.07-0.17 µg/ml.

Predicted N-terminal: Asn 53

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

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Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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