

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

Catalog Number: 50412-M03H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

DR5; KILLER; Ly98; MK; TRAILR2; TRICK2A; TRICK2B; TRICKB

Protein Construction:

A DNA sequence encoding the extracellular domain of mouse TNFRSF10B (NP_064671.2) (Met 1-Ser 177) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Immobilized human TNFSF10 (Cat:10409-HNAE) 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.

Endotoxin:

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

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asn 53

Molecular Mass:

The recombinant mouse TNFRSF10B/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 373 amino acids and has a calculated molecular mass of 41.8 kDa. As a result of glycosylation, the apparent molecular mass of the TNFRSF10B/Fc monomer is approximately 50-55 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

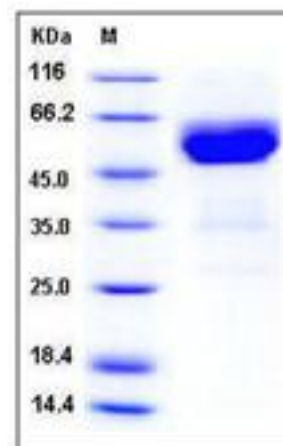
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Tumor necrosis factor receptor superfamily, member 1b, official symbol TNFRSF1B, also known as Death receptor 5, CD262, TNF-related apoptosis-inducing ligand receptor 2 (TRAIL R2), 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. TRAIL R2/CD262/TNFRSF1B 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. TRAIL R2/CD262/TNFRSF1B contains two extracellular cysteine-rich repeats, typical for TNF receptor (TNFR) family members, and a cytoplasmic death domain. TRAIL R2/CD262/TNFRSF1B 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 TRAIL R2/CD262/TNFRSF1B may be a cause of head and neck squamous cell carcinomas (HNSCC) also known as squamous cell carcinoma of the head and neck.

References

1. Schneider P, *et al.* (1997) TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF-kappaB. *Immunity*. 7(6): 831-6.
2. Ichikawa K, *et al.* (2003) TRAIL-R2 (DR5) mediates apoptosis of synovial fibroblasts in rheumatoid arthritis. *J Immunol*. 171(2): 1061-9.
3. Walczak H, *et al.* (1997) TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL. *EMBO J*. 16(17): 5386-97.

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