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

Catalog Number:PKSM040695

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

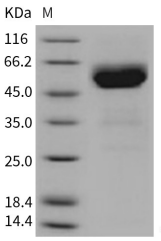
Description

Synonyms	Tumor Necrosis Factor Receptor Superfamily Member 10B;Death Receptor 5;TNF-Related Apoptosis-Inducing Ligand Receptor 2;TRAIL Receptor 2;TRAIL-R2;CD262;TNFRSF10B;DR5;KILLER;TRAILR2;TRICK2;ZTNFR9
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Ser 177
Accession	NP_064671.2
Calculated Molecular Weight	41.8 kDa
Observed molecular weight	50-55 kDa
Tag	C-His-Fc
Bioactivity	1. 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. 2. Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED50 for this effect is typically 20-80 ng/ml in the presence of 20 ng/ml Recombinant Human TRAIL/TNFSF10.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Tumor necrosis factor receptor superfamily, member 10b, official symbol TNFRSF10B, also known as Death receptor 5,

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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 (TNFSF10/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/TNFRSF10B 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/TNFRSF10B contains two extracellular cysteine-rich repeats, typical for TNF receptor (TNFR) family members, and a cytoplasmic death domain. TRAIL R2/CD262/TNFRSF10B 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/TNFRSF10B may be a cause of head and neck squamous cell carcinomas (HNSCC) also known as squamous cell carcinoma of the head and neck.

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