Recombinant Human TNFRSF10B/DR5/TRAIL-R2 /CD262 Protein

Catalog No.: RP01388

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Sequence Information

Species
Human

Gene ID
8795

Swiss Prot
O14763-1

Tags
C-hFc&His

Synonyms
CD262,DR5,KILLER,KILLER/DR5, TRAIL-R2,TRAILR2,TRICK2, TRICK2A,TRICK2B,TRICKB,ZTNFR9, TNFRSF10B

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
41.07 kDa

Observed MW
50-55 kDa

Endotoxin
< 0.1 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.

Background

This protein 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.

Basic Information

Description
Active Recombinant Human TNFRSF10B/DR5/TRAIL-R2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile56-Glu182) of human DR5/TRAIL R2 (Accession #NP_003833.3) fused with a Fc, 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human TNFRSF10B at 1 μg/mL (100 μL/well) can bind Human TNFSF10 with a linear range of 0.1-11.7 ng/mL.
2.Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L_x001e_929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 30-120 pg/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.

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℃

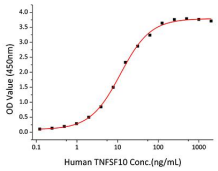
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

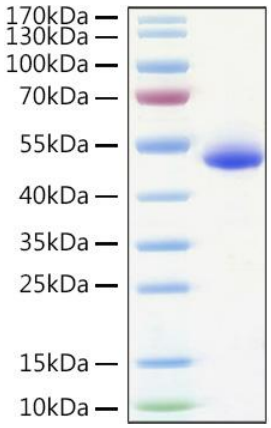
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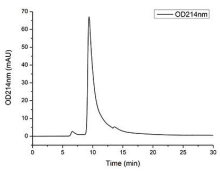
Validation Data



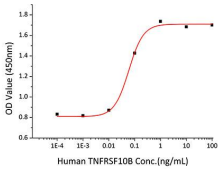
Immobilized Human TNFRSF10B at 1 μg/mL (100 μL/well) can bind Human TNFSF10 with a linear range of 0.1-11.7 ng/mL.



Recombinant Human TNFRSF10B/DR5/TRAIL-R2/CD262 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human DR5/TRAIL R2 Protein (Cat.RP01388) was greater than 90% as determined by SEC-HPLC.



Recombinant Human TNFRSF10B inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 30-120 pg/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.