Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein

Catalog No.: RP01412

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Sequence Information

Species
Human

Gene ID
7132

Swiss Prot
P19438-1

Tags
C-hFc

Synonyms
TNFRSF1A,CD120a,FPF,TBP1,TNF-R,TNF-R-I,TNF-R55,TNFAR,TNFR1,TNFR55,TNFR60,p55,p55-R,p60

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
46.45 kDa

Observed MW
55-65 kDa

Endotoxin
< 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

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD120a (cluste of differentiation 120a), also known as TNFR1 / TNFRSF1A, is a member of CD family, tumor necrosis factor receptor superfamily. CD120a is one of the most primary receptors for the tumor necrosis factor-alpha. It has been shown to be localized to both plasma membrane lipid rafts and the trans golgi complex with the help of the death domain (DD). CD120a can activate the transcription factor NF-κB, mediate apoptosis, and regulate inflammation processes.

Basic Information

Description
Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu30-Thr211) of human CD120a/TNFRSF1A (Accession #NP_001056.1) fused with a hFc tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Mouse TNFα at 2 μg/mL (100 μL/well) can bind Human TNFRSF1A with a linear range of 4-53 ng/mL.
2.Measured by its ability to inhibit TNF-α mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED_{50} for this effect is typically 14-57 ng/mL in the presence of 0.25 ng/mL recombinant human TNF-α.

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℃

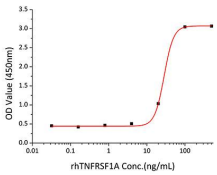
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

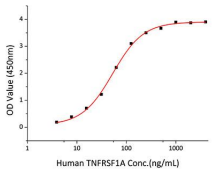
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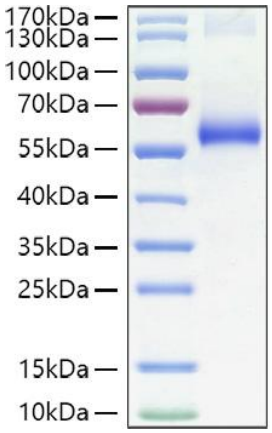
Validation Data



Recombinant Human TNFRSF1A inhibit TNF-α mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED_{50} for this effect is typically 14-57 ng/mL in the presence of 0.25 ng/mL recombinant human TNF-α.



Immobilized recombinant Mouse TNFα at 2 μg/mL (100 μL/well) can bind Human TNFRSF1A with a linear range of 4-53 ng/mL.



Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.