

RP00053

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Active Recombinant Human TNFSF15 Protein

Catalog No.: RP00053

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	9966	O95150

Tags

No tag

Synonyms

TNFSF15;TL1;TL1A;TNLG1B;VEGI;VEGI19
2A

Product Information

Source	Purification
<I>E. coli</I>	> 90% by SDS- PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of 20mM Tris, 50mM NaCl, 5%
glycerol, pH 8.0. Contact us for
customized product form or formulation.

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
stabilizer (e.g. 0.1% BSA, 5% HSA, 10%
FBS or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize freeze-thaw cycles.

Contact



www.abclonal.com

Background

The protein is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein is abundantly expressed in endothelial cells, but is not expressed in either B or T cells. The expression of this protein is inducible by TNF and IL-1 alpha. This cytokine is a ligand for receptor TNFRSF25 and decoy receptor TNFRSF21/DR6. It can activate NF-kappaB and MAP kinases, and acts as an autocrine factor to induce apoptosis in endothelial cells. This cytokine is also found to inhibit endothelial cell proliferation, and thus may function as an angiogenesis inhibitor.

Basic Information

Description

Active Recombinant Human TNFSF15 Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Leu72-Leu251) of human TL1A/TNFSF15 (Accession #NP_005109.2) fused with an initial Met at the N-terminus.

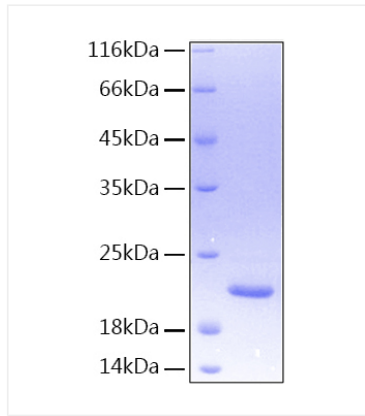
Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF15 Protein at 5 μg/mL (100 μL/well) can bind DCR3 with a linear range of 0.12-6.98 ng/mL. 2. Measured by its ability to induce apoptosis of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 52.1-208.5 ng/mL, corresponding to a specific activity of $4.79 \times 10^3 \sim 1.92 \times 10^4$ units/mg.

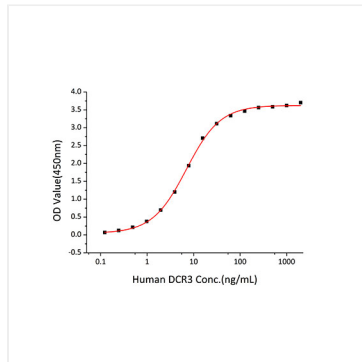
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

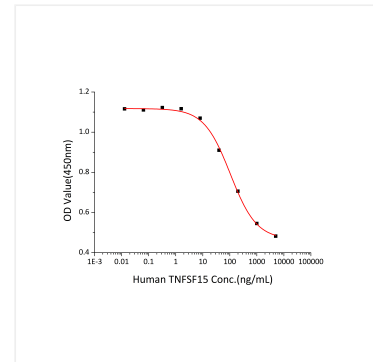
Validation Data



Recombinant Human TNFSF15 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 21 kDa.



Immobilized Human TNFSF15 Protein at 5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind DCR3 with a linear range of 0.12-6.98 ng/mL.



Recombinant Human TNFSF15 induce apoptosis of TF-1 human erythroleukemic cells. The ED_{50} for this effect is 52.1-208.5 ng/mL, corresponding to a specific activity of $4.79 \times 10^3 \sim 1.92 \times 10^4$ units/mg.