Recombinant Human TNFSF15/TL1 Protein

Catalog No.: RP00053

www.abclonal.com

Sequence Information

Species
Human

Gene ID
9966

Swiss Prot
O95150

Tags
No tag

Synonyms
TNFSF15,TL1,TL1A,TNLG1B,VEGI, VEGI192A

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
20.47 kDa

Observed MW
21 kDa

Endotoxin
< 1 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 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 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
Recombinant Human TNFSF15/TL1 Protein is produced by *E. coli* 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.

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 ED_{50} for this effect is 52.1-208.5 ng/mL, corresponding to a specific activity of 4.79×10^{3}~1.92×10^{4} units/mg.

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℃

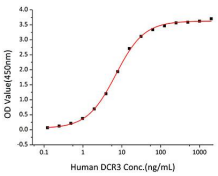
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

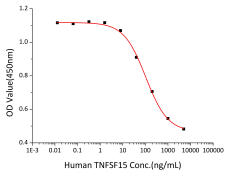
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

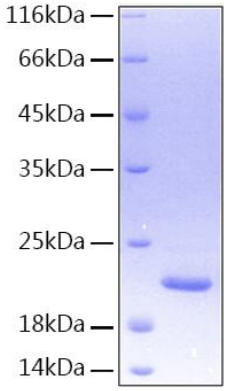
Validation Data



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.



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 4.79×10^{3}~1.92×10^{4} units/mg.



Recombinant Human TNFSF15/TL1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.