Recombinant Human TNFSF12/TWEAK Protein

Catalog No.: RP01446

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Sequence Information

Species
Human

Gene ID
8742

Swiss Prot
O43508-1

Tags
No tag

Synonyms
TNFSF12,APO3L,DR3LG,TNLG4A, TWEAK

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
16.94 kDa

Observed MW
15-20 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

TNFSF12 is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. It is a ligand for the FN14/TWEAKR receptor. TNFSF12 has overlapping signaling functions with TNF, but displays a much wider tissue distribution. It can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. It is also found that TNFSF12 promotes proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis. TNFSF12 also is a weak inducer of apoptosis in some cell types and mediates NF-kappa-B activation.

Basic Information

Description
Recombinant Human TNFSF12/TWEAK Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Lys97-His249 (N-Met)) of human TWEAK/TNFSF12 (Accession #NP_003800.1) fused with no additional amino acid.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF12 at 2 μg/mL (100 μL/well) can bind Human TNFRSF12A with a linear range of 0.1-2.3 ng/mL.
2.Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED_{50} for this effect is typically 0.81-3.24 ng/mL.

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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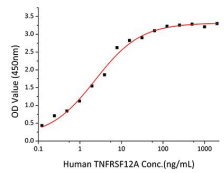
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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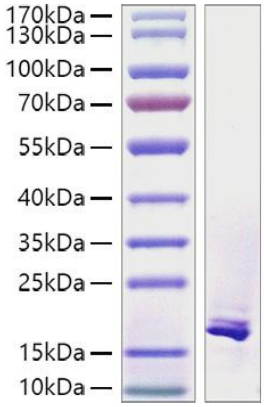
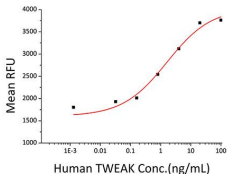


Recombinant Human TNFSF12/TWEAK Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human TNFSF12 stimulates cell proliferation of the human umbilical vein endothelial cells (HUVEC).The ED_{50} for this effect is typically 0.81-3.24 ng/mL.