

Recombinant Mouse TNFSF12/TWEAK Protein

Catalog No.: RP02821

Sequence Information

Species **Gene ID**
Mouse 21944

Swiss Prot **Tags**
O54907 C-raFc

Synonyms

TNFSF12, APO3L, DR3LG, TNLG4A, TWEAK

Product Information

Source **Purification**
HEK293 Cells ≥ 90 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
43.5 kDa 20,35,45–50 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 stabilizer (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-κB activation.

Basic Information

Description

Recombinant Mouse TNFSF12/TWEAK Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Arg105–His249) of mouse TNFSF12/TWEAK (Accession #NP_035744.1) fused with a raFc tag at the C-terminus.

Activity

Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED₅₀ for this effect is typically 10–50 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°C

Operational Notes

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

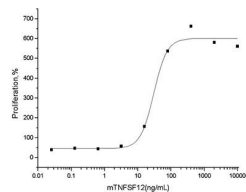
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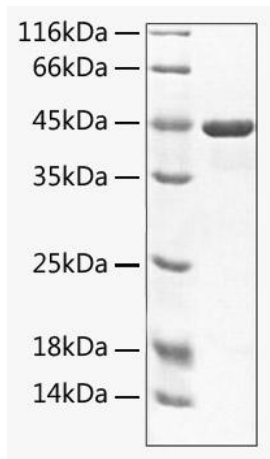
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Validation Data



Recombinant Mouse TNFSF12 promotes the proliferation of human umbilical vein endothelial cells (HUVEC). The ED₅₀ for this effect is typically 10–50 ng/mL.



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