

# Mouse TNFSF12 Protein (Fc Tag)

Catalog Number: 50174-M15H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

Apo3l; Dr3l; Dr3lg; Tweak

### Protein Construction:

A DNA sequence encoding the mouse TNFSF12 (NP\_035744.1) (Arg105-His249) was expressed with the Fc region of rabbit IgG at the N-terminus.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Ser

### Molecular Mass:

The recombinant mouse TNFSF12 consists of 396 amino acids and predicts a molecular mass of 43.5 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

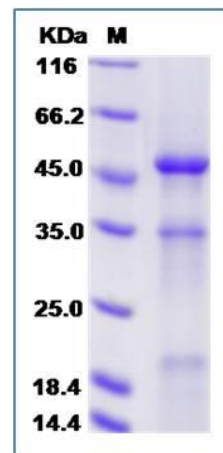
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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.

## References

1.Wiley SR, *et al.* (2004) TWEAK, a member of the TNF superfamily, is a multifunctional cytokine that binds the TweakR/Fn14 receptor. Cytokine Growth Factor Rev. 14(3-4):241-9. 2.Campbell S, *et al.* (2006) The role of TWEAK/Fn14 in the pathogenesis of inflammation and systemic autoimmunity. Front Biosci. 9:2273-84. 3.Lynch CN, *et al.* (1999) TWEAK induces angiogenesis and proliferation of endothelial cells. J Biol Chem. 274(13):8455-9.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

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