

# Recombinant Human TWEAK protein(His Tag)

Catalog Number:PKSH034128



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

<b>Synonyms</b>	TNFSF12;DR3LG;Apo3 Ligand
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Lys 97-His 249
<b>Accession</b>	O43508
<b>Calculated Molecular Weight</b>	17.9 kDa
<b>Observed molecular weight</b>	18 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measure by its ability to induce proliferation in HUVEC cells. The ED <sub>50</sub> for this effect is < 6 ng/mL.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS,pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## 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.

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Web: [www.elabscience.com](http://www.elabscience.com)

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Fax: 1-832-243-6017