



TNF Ligand Superfamily Member 12 (TWEAK), FLAG Tag, human recombinant, (rHuTNFSF12-HEK-FLAG)

Catalog No: 97314
Lot No: XXXXX
Source: HEK293
Synonyms: TWEAK, TNF-related weak inducer of apoptosis, TNFSF12, DR3LG, Apo3-Ligand, APO3L, TNFRSF12A, Tumor necrosis factor ligand superfamily member 12, MGC20669, MGC129581

Background

TNFSF12 is a cytokine that is part of the TNF ligand family. TNFSF12 is a ligand for the FN14/TWEAKR receptor. TNFSF12 has overlapping signaling functions with TNF, but displays a much wider tissue distribution. TNFSF12 induces apoptosis through multiple pathways of cell death in a cell type-specific manner. TNFSF12 promotes proliferation and migration of endothelial cells, and therefore acts as a regulator of angiogenesis. TNFSF12 is expressed in adult heart, pancreas, skeletal muscle, small intestine, spleen and peripheral blood lymphocytes. TWEAK h induces NFkB and chemokine secretion. TNFSF12 exerts an apoptotic activity in HT-29 human adenocarcinoma cells whilst cultured in the presence of IFN-?. TNFSF12 promotes proliferation and migration of endothelial cells.

Description

TWEAK human recombinant, fused to a N-terminal 13 amino acids FLAG tag, produced in HEK293 cells is a 18.7 kDa protein containing a total of 169 amino acids.

Physical Appearance

Filtered white lyophilized (freeze-dried) powder.

Formulation

Filtered and lyophilized from 0.5 mg/ml in 20 mM Tris buffer and 50 mM NaCl pH 7.5.

Solubility

Add pyrogen free water to a working concentration of 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Store lyophilized TWEAK at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

HVDYKDDDDK PAGESAPKGRK TRARRAIAAH YEVHPRPGQD GAQAGVDGTV SGWEERINS SSPLRYNRQI GEFIVTRAGL
YYLYCQVHFD EGKAVYLKLD LLVDGVLAIR CLEEFSAATAA SSLGPQLRLC QVSGLLALRP GSSLRIRTLP WAHLKAAPFL
TYFGLFQVH

Applications

WB

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Usage

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