

## TNFSF12 Human

**Description:** The TWEAK Human Recombinant is manufactured with N-terminal fusion of 13 amino acid FLAG Tag. The TNFSF12 Flag -Tagged Fusion Protein has a Mw of 18.7kDa containing a total of 169 amino acid residues.

**Synonyms:** TWEAK, TNF-related weak inducer of apoptosis, TNFSF12, DR3LG, Apo3-Ligand, APO3L, TNFRSF12A, Tumor necrosis factor ligand superfamily member 12, MGC20669, MGC129581.

**Source:** HEK293.

**Physical Appearance:** Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** HVDYKDDDDK PAGESAPKGRK TRARRAIAAH YEVHPRPGQD  
GAQAGVDGTV SGWEERINS SSPLRYNRQI GEFIVTRAGL YYLYCQVHFD EGKAVYKLD  
LLVDGVLALR CLEEFSAATAA SSLGPQLRLC QVSGLLALRP GSSLRIRTLP WAHLKAAPFL  
TYFGLFQVH.

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

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

**Stability:**

Store lyophilized TWEAK Human recombinant 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Western blotting.

**Solubility:**

Add pyrogen free water to a working concentration of 0.5mg/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.

**Introduction:**

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

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