

## 32-20489: Recombinant Human TWEAK(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** TNF-related weak inducer of apoptosis, TNFSF12, DR3LG, Apo3 Ligand

### Description

**Source:** *E.coli* TWEAK belongs to the TNF family of ligands, and signals through TWEAKR, also known as TNFRSF12A. TWEAK is expressed in a variety of tissues, including the adult heart, pancreas, skeletal muscle, small intestine, spleen and peripheral blood lymphocytes. TWEAK has the ability to induce NF- $\kappa$ B activation and chemokine secretion, and to exert an apoptotic activity in certain cells, such as HT-29 human adenocarcinoma cells when cultured in the presence of IFN-Gamma. TWEAK also promotes proliferation and migration of endothelial cells. The human TWEAK gene encodes for a 249 amino acid type II transmembrane protein, which contains a 21 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain, and a 207 amino acid extracellular domain. Recombinant Human TWEAK is a soluble 17.0 kDa polypeptide (154 amino acid residues) comprising the TNF-homologous region of TWEAK, and is generated by proteolytic processing of the full length membrane-anchored TWEAK protein.

### Product Info

**Amount :** 5  $\mu$ g / 25  $\mu$ g

**Purification :** Purity:  $\geq$  98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MKGRKTRARR AIAAHYEVHP RPGQDGAQAG VDGTVSGWEE ARINSSSPLR YNRQIGEFIV TRAGLYLYLC  
QVHFDEGKAV YLKDLLVDG VLALRCLEEF SATAASSLGP QLRLCQVSG LALRPGSSLR IRTLPAHLK  
AAPFLTYFGL FQVH

### Application Note

Assay #1: The  $ED_{50}$  as determined by the dose-dependent stimulation of IL-8 production by Human PBMC is less than 10 ng/ml. Assay #2: TWEAK weakly induces the death of HT29 cells when cultured in the presence of IFN-Gamma. The  $ED_{50}$  for this effect is between 30-45 ng/ml.