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32-20399: Animal-Free Recombinant Human TWEAK(Discontinued)

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

Description

Source:E.coliTWEAK 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-kB 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 µg / 25 µg

Purification : Purity:>= 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 TRAGLYYLYC QVHFDEGKAV YLKLDLLVDG VLALRCLEEF SATAASSLGP QLRLCQVSGL LALRPGSSLR IRTLPWAHLK AAPFLTYFGL FQVH

Application Note

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

For Research Use Only. Not for use in diagnostic/therapeutics procedures.