

TNFSF12

Recombinant Human TWEAK

Catalog No.	CRT600B	Quantity:	25 µg
Alternate Names:	Tumor necrosis factor ligand superfamily member 12, APO3 ligand, TNF-related weak inducer of apoptosis, TWEAK		
Description:	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 NFκB 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-γ. TWEAK also promotes proliferation and migration of endothelial cells. 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.		
UniProt ID:	O43508		
Gene ID:	8742		
Source:	<i>E. coli</i>		
Molecular Weight:	17.0 kDa (154 aa)		
Formulation:	Lyophilized from 10 mM sodium phosphate, pH 7.5 + 0.1 M L-Arg		
Purity:	> 98% as determined by SDS-PAGE and HPLC analyses		
Endotoxin Level:	< 1 EU/µg protein		
Biological Activity:	<p>Assay #1: The ED₅₀ as determined by the dose-dependent stimulation of IL-8 production by Human PBMC is less than 10 ng/ml.</p> <p>Assay #2: TWEAK weakly induces the death of HT29 cells when cultured in the presence of IFN-gamma. The ED₅₀ for this effect is between 30 - 45 ng/ml.</p>		
Amino Acid Sequence:	MKGRKTRARR AIAAHYEVHP RPGQDGAQAG VDGTVSGWEE ARINSSSPLR YNRQIGEFIV TRAGLYLYYC QVHFDEGKAV YLKL DLLVDG VLALRCLEEF SATAASSLGP QLRLCQVSGL LALRPGSSLR IRTLPWAHLK AAPFLTYFGL FQVH		
Reconstitution:	Centrifuge vial prior to opening. First add 10 mM sodium phosphate to the vial to fully solubilize the protein to a concentration of 1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C for up to 1 year. Reconstituted protein is stable for immediate use at 2-8°C or in working aliquots at -20°C to -80°C for longer storage. Avoid repeated freeze-thaw cycles.		

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