

Active Recombinant Human TNFSF12 Protein, Fc Tagged

Cat. No. TNFSF12-11241H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TWEAK Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 94-His 249 (Accession # O43508-1). This protein carries a human IgG1 Fc tag at the N-terminus. Predicted N-terminus: Pro
Species	Human
Source	HEK293
ProteinLength	94-249 aa
Description	TWEAK (tumor necrosis factor-like weak inducer of apoptosis) is a member of the TNF superfamily that controls a multitude of cellular events including proliferation, migration, differentiation, apoptosis, angiogenesis, and inflammation. TWEAK exists in both membrane-bound and secreted forms, and can induce cell apoptosis via multiple pathways of cell death in a cell type-specific manner. It has also been found to promote the proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Human TWEAK Protein, Fc Tag immobilized on CM5 Chip can bind Human TWEAK R, Fc Tag with an affinity constant of 42.8 pM as determined in a SPR assay.
Molecular Mass	The protein has a calculated MW of 43.6 kDa. The protein migrates as 33 kDa and 48-53 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under

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	reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFSF12 tumor necrosis factor (ligand) superfamily, member 12 [Homo sapiens (human)]
Official Symbol	TNFSF12
Synonyms	TNFSF12; tumor necrosis factor (ligand) superfamily, member 12; tumor necrosis factor ligand superfamily member 12; APO3L; DR3LG; TWEAK; APO3 ligand; APO3/DR3 ligand; TNF-related WEAK inducer of apoptosis; MGC20669; MGC129581;
Gene ID	8742
mRNA Refseq	NM_003809

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Protein Refseq	NP_003800
MIM	602695
UniProt ID	O43508

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