

Recombinant Human TNFSF12 protein, His-tagged

Cat. No. TNFSF12-1068H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF12 aa. (Asp65~Gln247 (Accession # O43508) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp65~Gln247
Description	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein is a ligand for the FN14/TWEAKR receptor. This cytokine has overlapping signaling functions with TNF, but displays a much wider tissue distribution. This cytokine, which exists in both membrane-bound and secreted forms, can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. This cytokine is also found to promote proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis. Alternative splicing results in multiple transcript variants. Some transcripts skip the last exon of this gene and continue into the second exon of the neighboring TNFSF13 gene; such read-through transcripts are contained in GeneID 407977, TNFSF12-TNFSF13.
Form	Freeze-dried powder
Molecular Mass	23kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 9.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TNFSF12 TNF superfamily member 12 [Homo sapiens (human)]
Official Symbol	TNFSF12
Synonyms	TNFSF12; TNF superfamily member 12; APO3L; DR3LG; TWEAK; TNLG4A; tumor necrosis factor ligand superfamily member 12; APO3 ligand; APO3/DR3 ligand; TNF-related WEAK inducer of apoptosis; tumor necrosis factor (ligand) superfamily, member 12; tumor necrosis factor ligand 4A; tumor necrosis factor superfamily member 12

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Gene ID	8742
mRNA Refseq	NM_003809.2
Protein Refseq	NP_003800.1
UniProt ID	O43508

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