

Active Recombinant Human TNFSF12 Protein (Lys56-His249), C-His tagged, Animal-free, Carrier-free

Cat. No. TNFSF12-305H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF12 Protein (Lys56-His249) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Lys56-His249
Description	TNF-related weak inducer of apoptosis (TWEAK) is a type II membrane protein of the tumor necrosis factor (TNF) family members, high levels expression in human brain, muscle, heart, spleen, and thymus. TWEAK is a 17.3 kDa protein containing 129 residues. TWEAK induce apoptosis through cognate receptor Fn14 activate caspase-8 and caspase-3, in HSC3 cells KATO-III gastric adenocarcinoma cells and IFN-γ-treated HT-29. TWEAK stimulate inflammatory cytokines in HT-29, A375 cells, WI-38 fibroblast and astrocytes.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in HUVEC cells. The ED50 for this effect is < 6 ng/mL.
Molecular Mass	The protein has a calculated MW of 17.88 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

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

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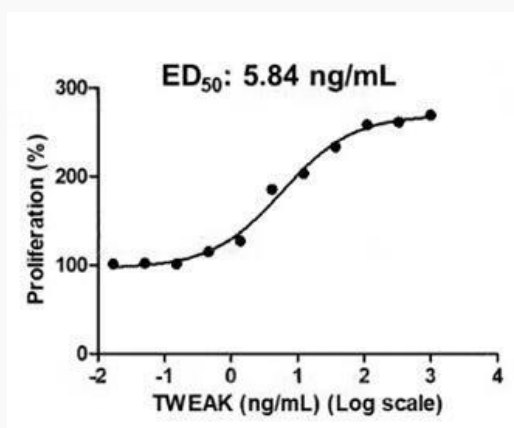
mRNA Refseq [NM_003809](#)

Protein Refseq [NP_003800](#)

MIM [602695](#)

UniProt ID [O43508](#)

Activity



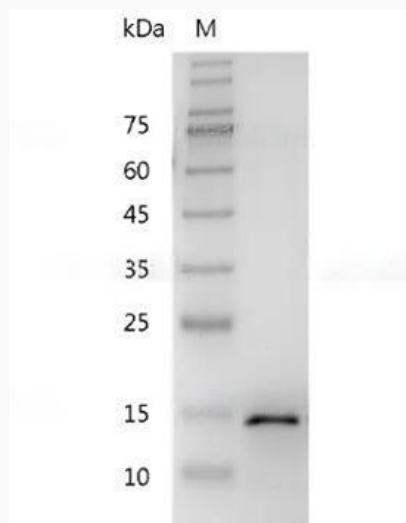
Human TWEAK, His Tag, E. coli (LDG123PHE) induced HUVEC cell proliferation, with the ED₅₀ at 5.84 ng/mL.

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**SDS-PAGE analysis
of recombinant
human TWEAK.**



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