

Recombinant Human TNFRSF12A protein

Cat. No. TNFRSF12A-582H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF12A protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	53
Description	Human TNF-related weak inducer of apoptosis receptor (TWEAKR) also known as Tumor necrosis factor receptor superfamily member 12A precursor (gene name TNFRSF12A) or fibroblast growth factor-inducible 14 kD protein, is distantly related to the TNFR family, containing one cysteine-rich domain in the extracellular region and a TNFR-associated factor binding domain but does not contain a death domain (DD) cytoplasmic region. It is expressed in the spleen, thymus, peripheral blood lymphocytes, colon, and small intestine. Signal transduction by TWEAK receptor can be activated by either the membrane anchored or the soluble TWEAK. In addition, It plays a role in TWEAK-induced endothelial cell migration, proliferation, and angiogenesis. Human and mouse TWEAK R share 82 % a.a. sequence identity.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by inhibiting TWEAK-dependent proliferation of human umbilical vein endothelial cells (HUVEC) is less than 30 ng/ml, corresponding to a specific activity of $> 3.3 \times 10^4$

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	IU/mg, in the presence of 15 ng/ml of rHuTWEAK.
Molecular Mass	Approximately 5.6 kDa, a single non-glycosylated polypeptide chain containing 53 amino acids.
AA Sequence	EQAPGTAPCSRGSSWSADLDKCMDCASCRRPHSDFCLGCAAAPPAPFRLLWP
Endotoxin	Less than 1 EU/μg of rHuTWEAK Receptor as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	TNFRSF12A
Official Symbol	TNFRSF12A
Synonyms	TNFRSF12A; tumor necrosis factor receptor superfamily, member 12A; tumor necrosis factor receptor superfamily member 12A; CD266; FN14; TweakR; tweak-receptor; FGF-inducible 14; type I transmembrane protein Fn14; fibroblast growth

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factor-inducible immediate-early response protein 14; TWEAKR;

Gene ID 51330

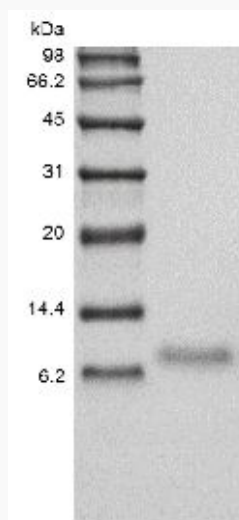
mRNA Refseq NM_016639

Protein Refseq NP_057723

MIM 605914

UniProt ID Q9NP84

**SDS-PAGE of
TNFRSF12A-582H**



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