

## TNFRSF12A Human

**Description:** TNFRSF12A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 5.6 KDa. The TNFRSF12A is purified by proprietary chromatographic techniques.

**Synonyms:** Tumor necrosis factor receptor superfamily member 12A, FN14, CD266 antigen, TweakR, tweak-receptor, Fibroblast growth factor-inducible immediate-early response protein 14, FGF-inducible 14, type I transmembrane protein Fn14.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** EQAPGTAPCS RGSSWSADLD KCMDCASCRA RPHSDFCLGC  
AAAPPAPFRL LWP.

**Purity:** Greater than 97.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized TNFRSF12A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNFRSF12A should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized TNFRSF12A in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

The gene for TNFRSF12A was initially recognized as a fibroblast growth factor inducible immediate early response gene Fn14 in mouse NIH 3T3 fibroblasts. Human TNFRSF12A cDNA encodes a 129 amino acid residue type I transmembrane protein with a 27 aa signal peptide, a 53 aa extracellular domain, a 21 aa transmembrane domain and a 28 aa cytoplasmic domain. Human and mouse TNFRSF12A hold 82% aa sequence identity. TNFRSF12 is the tiniest member of the TNF receptor superfamily and has only one cysteine rich region in its extracellular domain. The TNFRSF12A cytoplasmic domain holds one TRAF binding motif which binds TRAFs 1, 2, and 3. TNFRSF12A binds its ligand TWEAK/TNFSF12A with high affinity to initiate a signal transduction cascade which subject to the cell type, causes different cellular responses such as cell death, cell proliferation, and angiogenesis.

**Biological Activity:**

The TNFRSF12A biological activity is determined by its ability to inhibit TWEAK-induced weak cell

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death of HT29 cells. The expected ED50 for this effect is 1.0-5.0µg/ml in the presence of 1µg/ml rhTWEAK.



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