Product Data Sheet

Product Name:	TNFRSF12A Human, sf9
Cat. No.:	GP21008
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	EQAPGTAPCS RGSSWSADLD KCMDCASCRA RPHSDFCLGC AAAPPAPFRL LWPLEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH.		
Formulation	TNFRSF12A protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4), 1mM DTT and 20% glycerol.		

Introduction

The gene for TNFRSF12Awas 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.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

TNFRSF12A Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 292 amino acids (28-80a.a.) and having a molecular mass of 32.6kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). TNFRSF12A is expressed with a 239 amino acids hIgG- His tag at C-Terminus and purified by proprietary chromatographic techniques.

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