
Product Data Sheet

Product Name: TNFRSF10A Human Fc
 Cat. No.: GP21001
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor Necrosis Factor Receptor Superfamily Member 10a; TRAILR1; APO2; DR4; TNF-Related Apoptosis-Inducing Ligand Receptor 1; Death Receptor 4; TRAIL Receptor 1; TRAIL-R1; Tumor Necrosis Factor Receptor Superfamily Member 10a Variant 2; Tumor Necrosis Factor Receptor Superfamily Member 10A; Cytotoxic TRAIL Receptor; CD261 Antigen; TRAILR-1; CD261; TNFRSF10A.		
Amino Acid Sequence	ASGTEAAAAT PSKVGWSSAG RIEPRGGGRG ALPTSMGQHG PSARARAGRA PGPRPAREAS PRLRVHKTFK FVVVGVLLQV VPSSAATIKL HDQSIGTQQW EHSPLGELCP PGSHRSERPG ACNRCTEGVG YTNASNNLFA CLPCTACKSD EEERSPCTTT RNTACQCKPG TFRNDNSAEM CRKCSTGCPR GMVKVKDCTP WSDIECVHKE SGNGHNIIEGR MDPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSGSGF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSL PGK.		
Solubility	It is recommended to reconstitute the lyophilized TNFRSF10A in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in PBS.		

Introduction

Human TNFRSF10A is a type 1 transmembrane protein in the TNF R superfamily. TNFRSF10A is not expressed in rodents. The trimeric ligand Trail binds TNFRSF10A and

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induces apoptosis, and recombinant, soluble forms of the receptor inhibit Trail-induced apoptosis. TNFRSF10A is expressed generally in damaged, infected, and malignant cells. TNFRSF10A functions in immune surveillance, inducing apoptosis in cancer cells but not normal cells.

Biological Activity

The ED50, as measured by its ability to inhibit Trail-mediated cytotoxicity in mouse L-929 cells, is less than 1.25ng/ml.

Stability

Lyophilized TNFRSF10A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TRAIL-R1 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.

Background

TRAIL R1 Fc Human Recombinant (24-240) produced in E.Coli is a non-glycosylated, disulfide-linked homodimer containing two polypeptide chains of 217 amino acids each and having a molecular mass of 41kDa [including tag] each chain. TRAILR1 is fused to a 236 amino acid Fc tag at C-terminal and purified by proprietary chromatographic techniques.

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