Product Data Sheet

Product Name:	TNFRSF14 Human
Cat. No.:	GP21010
Batch No.:	1

Product Data

Purity	>98%	Source	Pichia Pastoris.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor Necrosis Factor Receptor Superfamily Member 14; HVEM; TR2; Herpes Virus Entry Mediator A; Tumor Necrosis Factor Receptor-Like 2; Herpesvirus Entry Mediator; HVEA; ATAR; CD270; LIGHTR; CD40-Like Protein; Tumor Necrosis Factor Receptor-Like Gene2.		
Amino Acid Sequence	LPSCKEDEYP VGSECCPKCS PGYRVKEACG ELTGTVCEPC PPGTYIAHLN GLSKCLQCQM CDPAMGLRAS RNCSRTENAV CGCSPGHFCI VQDGDHCAAC RAYATSSPGQ RVQKGGTESQ DTLCQNCPPG TFSPNGTLEE CQHQTKCSWL VTKAGAGTSS SHWVEPKSSD KTHTCPPCPA PEFEGAPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPTP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGK		
Solubility	It is recommended to reconstitute the lyophilized TNFRSF14 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TNFRSF14 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH7.4, with 3 % Trehalose.		

Introduction

TNFRSF14, a member of the TNF receptor superfamily, is a type I transmembrane protein. TNFRSF14 is expressed in peripheral blood T cells, B cells, monocytes and in various tissues enriched in lymphoid cells. TNFRSF14 operates as a co-stimulatory factor for the activation of lymphoid cells and as a deterrent to infection by herpesvirus. Additionally, TNFRSF14 encourages the proliferation of T cells, and triggers apoptosis of various tumor cells.

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Biological Activity

Fully biologically active when compared to standard. The biologically active as determined by its ability to inhibit TNF-beta -mediated cytotoxicity using murine L929 cells.

Stability

Lyophilized TNFRSF14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TNFRSF14 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).

Background

TNFRSF14 Human Recombinant produced in Pichia Pastoris is a single, glycosylated, polypeptide chain containing 396 amino acids and having a molecular mass of 58.0kDa.

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