
Product Data Sheet

Product Name: TNFSF14 Mouse
 Cat. No.: GP21012
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tumor necrosis factor ligand superfamily member 14; CD258; Tnfsf14; Light.		
Amino Acid Sequence	DGGKGSWEKL IQDQRSHQAN PAAHLTGANA SLIGIGGPLL WETRLGLAFL RGLTYHDGAL VTMEPGYYYV YSKVQLSGVG CPQGLANGLP ITHGLYKRTS RYPKELELLV SRRSPCGRAN SSRVWWDSSF LGGVWHLEAG EEVVVRVPGN RLVRPRDGTR SYFGAFMV.		
Solubility	It is recommended to reconstitute the lyophilized TNFSF14 in sterile 100mM HAc not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TNFSF14 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS pH7.4.		

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.

Biological Activity

The ED50 as determined by a cytotoxicity assay using human HT-29 cells is less than 2µg/ml, corresponding to a specific activity of > 500 IU/mg in the presence of murine anti-polyHistidine monoclonal antibody and rHuIFN-g.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized TNFSF14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TNFSF14 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

TNFSF14 Mouse Recombinant produced in E. Coli is a single, non-glycosylated, polypeptide chain containing 168 amino acids and having a molecular mass of 18.4kDa.

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