
Product Data Sheet

Product Name: TNFSF12 Human
 Cat. No.: GP21006
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	TWEAK; TNF-related weak inducer of apoptosis; TNFSF12; DR3LG; Apo3-Ligand; APO3L; TNFRSF12A; Tumor necrosis factor ligand superfamily member 12; MGC20669; MGC129581.		
Amino Acid Sequence	MHHHHHHRSA PKGRKTRARR AIAAHYEVHP RPGQDGAQAG VDGTVSGWEE ARINSSSPLR YNRQIGEFIV TRAGLYYLYC QVHFDEGKAV YLKL DLLVDG VLALRCLEEF SATAASSLGP QLRLCQVSG LALRPGSSLR IRTL PWAHLK AAPFLTYFGL FQVH.		
Solubility	It is recommended to reconstitute the lyophilized TNFSF12 in sterile 18MΩ-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

TNFSF12 is a cytokine that is part of the TNF ligand family. TNFSF12 is a ligand for the FN14/TWEAKR receptor. TNFSF12 has overlapping signaling functions with TNF, but displays a much wider tissue distribution. TNFSF12 induces apoptosis through multiple pathways of cell death in a cell type-specific manner. TNFSF12 promotes proliferation and migration of endothelial cells, and therefore acts as a regulator of angiogenesis. TNFSF12 is expressed in adult heart, pancreas, skeletal muscle, small intestine, spleen and peripheral blood lymphocytes. TWEAK h induces NFκB and chemokine secretion. TNFSF12 exerts an apoptotic activity in HT-29 human adenocarcinoma cells whilst cultured in the presence of IFN-γ. TNFSF12 promotes proliferation and migration of endothelial cells.

Biological Activity

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

Product Data Sheet

The ED50, as measured in a proliferation assay using HUVECs, is less than 8ng/ml.

Stability

Lyophilized TNFSF12 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TWEAK 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

TNFSF12 Human Recombinant (94-249 a.a.) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 156 amino acids and having a total molecular mass of 18kDa.The TNFSF12 is fused with an 8 amino acids his tag at N-terminal (M-HHHHHH-R, total 164 a.a.) and purified by proprietary chromatographic techniques.

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