9051 Mira Mesa Blvd, #910094
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TNFSF12 Human

TNF Ligand Superfamily Member 12 Human Recombinant
CYK0598

Product Overview

Name	TNFSF12 Human

Description

TNF Ligand Superfamily Member 12 Human Recombinant

Accession (Primary)	O43508

Synonyms

TWEAK, TNF-related weak inducer of apoptosis, TNFSF12, DR3LG, Apo3-Ligand, APO3L, TNFRSF12A, Tumor necrosis factor ligand superfamily member 12, MGC20669, MGC129581.

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 induces NFkB and chemokine secretion. TNFSF12 exerts an apoptotic activity in HT-29 human adenocarcinoma cells whilst cultured in the presence of IFN-?. TNFSF12 promotes proliferation and migration of endothelial cells.

Source

Escherichia coli.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 μm filtered solution in PBS.

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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

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MHHHHHHR SA PKGRKTRARR AIAAHYEVHP RPGQDGAQAG VDGTVSGWEE ARINSSSPLR YNRQIGEFIV TRAGLYYLYC QVHFDEGKAV YLKLDLLVDG VLALRCLEEF SATAASSLGP QLRLCQVSGL LALRPGSSLR IRTLPWAHLK AAPFLTYFGL FQVH.

Biological Activity

The ED 50 , as measured in a proliferation assay using HUVECs, is less than 8ng/ml.

Solubility

It is recommended to reconstitute the lyophilized TNFSF12 in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

TNFSF12 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O43508)