Product Data Sheet

Product Name:	VEGI Human
Cat. No.:	GP21057
Batch No.:	1

Product Data

Purity	>98%	Source	Es
Phycical Appearance	solid	Shipping Condition	Sh
Synonyms	Tumor necrosis factor ligand superfamily member 15; TNFSF-15; TNFSF15; TNF ligand-related molecule 1; VEGI; TL-1; TL1; TL1A; V		
Amino Acid Sequence	MQLTKGRLHFSHPLSHTKHISPFVTDAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWEHELGLAFTKNRMNYTNKFLLIPESGDYFIYSQVTFRGMT		
Solubility	It is recommended to reconstitute the lyophilized TNFSF15 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be furt		
Formulation	The TNFSF15 was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 with 0.02% Tween-20.		

Introduction

TNFSF15 is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein is abundantly expressed in endothelial cells, but is not expressed in either B or T cells. The expression of TNFSF15 is inducible by TNF and IL-1 alpha. This cytokine is a ligand for receptor TNFRSF25 and decoy receptor TNFRSF21/DR6. It can activate NF-kappaB and MAP kinases, and acts as an autocrine factor to induce apoptosis in endothelial cells. TNFSF15 is also found to inhibit endothelial cell proliferation, and thus may function as an angiogenesis inhibitor. An additional isoform encoded by an alternatively spliced transcript variant has been reported but the sequence of this transcript has not been determined.

Biological Activity

The ED50 as determined by its ability to induce apoptosis using human TF-1 cells is less than 20ng/ml, corresponding to a specific activity of > 5.06┴104 IU/mg.

Stability

TNFSF15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution VEGI 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

TNFSF15 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 20.5kDa. The TNFSF15 is purified by proprietary chromatographic techniques.

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