

Recombinant Human Vascular Endothelial Growth Inhibitor

Cat. No. TNFSF15-27H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGI-192 produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain containing 192 amino acids and having a molecular mass of 21.858 kDa.
Species	Human
Source	E.coli
Description	Vascular endothelial growth inhibitor (VEGI; TNFSF-15) is a new member of the tumor necrosis factor family. VEGI is predominantly an endothelial cell-specific gene, and recombinant VEGI is a potent inhibitor of endothelial cell proliferation, angiogenesis and tumor growth. VEGI exerts two activities on endothelial cells: early G1 arrest of G0/G1-cells responding to growth stimuli, and programmed death of proliferating cells. These activities are highly specific to endothelial cells. VEGI is also able to regulate the expression of several important genes involved in angiogenesis. These findings are consistent with the view that VEGI functions as an autocrine cytokine to inhibit angiogenesis and stabilize the vasculature.
Purity	>95% by SDS-PAGE and RP-HPLC.
Formulation	Lyophilized after extensive dialysis against 0.5M NaCl, 50mM Tris-HCl buffer, pH 7.5.
Specific Activity	The ED50 as determined by the dose-dependant inhibition of the proliferation of HUVEC (Human Umbilical Vein Endothelial Cells) is less than 5µg/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 0.1 ng/g (1 IEU/g) of rHuVEGI
Reconstitution	It is recommended to reconstitute the lyophilized VEGI-192 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized VEGI-192 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGI-192 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). Aliquot to avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TNFSF15
Synonyms	MGC129934; MGC129935; TL1; TL1A; VEGI; VEGI192A; Tumor necrosis factor ligand superfamily member 15; Vascular endothelial cell growth inhibitor; TNF ligand-related molecule 1; TNF15; TNFSF15; TL-1; VEGI-192; tumor necrosis factor (ligand) superfamily, member 15
Gene ID	9966
mRNA Refseq	NM_005118.2
Protein Refseq	NP_005109.2
MIM	604052
UniProt ID	O95150
Chromosome	9q32

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Location	
Pathway	Cytokine-cytokine receptor interaction
Function	Cytokine activity, Tumor necrosis factor receptor binding

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