



Vascular Endothelial Growth Inhibitor, His Tag, human recombinant (rHuVEGI-His)

Catalog No: 97387
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor necrosis factor ligand superfamily member 15, TNFSF-15, TNFSF15, TNF ligand-related molecule 1, VEGI, TL-1, TL1, TL1A, VEGI192A, VEGI-192, MGC129934, MGC129935

Background

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.

Description

VEGI human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 201 amino acids (72-251) and having a molecular mass of 22.7 kDa. VEGI is fused with a 21 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The VEGI solution (1 mg/1 ml) contains 20 mM Tris-HCl buffer (pH 8.0), 50% glycerol, 1 mM DTT and 0.2 M NaCl.

Stability

VEGI should be stored desiccated 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 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MLKGQEFAPS HQQVYAPLRA DGDKPRAHLT VVRQTPTQHF KNQFPALHWE HELGLAFTKN
RMNYTNKFLI IPESGDYFIY SQVTFRGMTS ECSEIRQAGR PNKPDSTIVV ITKVTDSTPE PTQLLMGTSK VCEVGSNWFQ
PIYLGAMFSL QEGDKLMVNV SDSLVDYTK EDKTFFGAFL L

Usage

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