DATASHEET
Version 20181206

VEGI, Human

Cat. No.: Z02198-50

Size: 50.0 ug

Synonyms: VEGI (Human); VEGI-192; rHuVEGI;

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. GenScript Vascular Endothelial Growth Inhibitor (VEGI), human, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 192 amino acids and having a molecular mass of 21,858 Da.

Source: *E. coli*

Species: Human

Molecular Weight: 21,858 Da

Formulation: GenScript Recombinant Human VEGI-192 is lyophilized after extensive dialysis against 0.5 M NaCl, 50 mM Tris-HCl buffer, pH 7.5.

Reconstitution: It is recommended that the lyophilized VEGI-192 be reconstituted in sterile 18 MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Purity: The purity of GenScript Recombinant Human VEGI-192 is greater than 95.0%, as determined by the following methods:
(a) RP-HPLC analysis
(b) Reducing and non-reducing SDS-PAGE silver-stained gel analysis

Endotoxin Level: The endotoxin level of GenScript Recombinant Human VEGI-192 is below 0.1 ng/µg (1 IEU/µg) of rHuVEGI.

Storage: Although lyophilized VEGI-192 can remain stable at room temperature for up to three weeks, it is best stored desiccated below -18°C. After reconstitution, VEGI-192 may be stored at 4°C for up to seven days and below -18°C for longer periods. For long-term storage, it is recommended that a carrier protein (0.1% HSA or BSA) be added. Please avoid freeze-thaw cycles.

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