Human VEGF121 / VEGF-A Protein

Catalog Number: 10008-HNAH

General Information

Gene Name Synonym:
MVCD1; VEGF; VEGF165; VPF

Protein Construction:
A DNA sequence encoding the human VEGF 121 isoform (P15692-9) (Met1-Arg147) was expressed.

Source: Human
Expression Host: HEK293 Cells

QC Testing

Purity: (55.6 + 41.6) % as determined by SDS-PAGE

Bio Activity:
1. Measured by its binding ability in a functional ELISA.
2. Immobilized human VEGF121 (Cat: 10008-HNAH) at 10μg/mL (100μL/well) can bind human VEGFR2-Fc (Cat: 10012-H02H), the EC50 of human VEGFR2-Fc is 5-50 ng/mL.
3. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 3-15 ng/mL.

Endotoxin:
< 1.0 EU per μg of the protein as determined by the LAL method

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 27

Molecular Mass:
The recombinant human VEGF consists of 121 amino acids and has a predicted molecular mass of 14 kDa. The apparent molecular mass of the human VEGF 121 is approximately 19.9 and 17.0 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

Normally 5 - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

References


Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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