Human VEGF-C (His Tag) recombinant protein

Catalog Number: 500116

General Information

Gene Name Synonym

Flt4 ligand; Vascular endothelial growth factor-related protein

Protein Construction

A DNA sequence encoding the mature form of human VEGFC (NP_005420.1) corresponding to amino acid (Thr 103-Arg 227) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA.
Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4 nM.
2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED_{50} for this effect is 0.1-0.5μg/mL.

Purity

> 97 % as determined by SDS-PAGE

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℃

Predicted N terminal

Thr 103

Molecular Mass

The recombinant mature form of human VEGFC consists of 136 amino acids and has a predicted molecular mass of 15.5 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 22-24 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

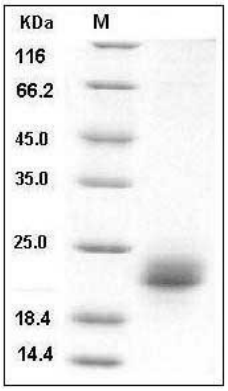
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human VEGF-C Protein (His Tag) SDS-PAGE