

Recombinant Human Flt4 ligand/VEGF-C Protein

Catalog No.: RP01173

Sequence Information

Species **Gene ID**
Human 7424

Swiss Prot **Tags**
P49767 C-His

Synonyms

VEGFC, Flt4-L, LMPH1D, VRP

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
14.93 kDa 19-25 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

VEGF-C is a member of the VEGF family. Upon biosynthesis, VEGF-C protein is secreted as a non-covalent homodimer in an anti-parallel fashion. VEGF-C protein is a dimeric glycoprotein, as a ligand for two receptors, VEGFR-3 (Flt4), and VEGFR-2. VEGF-C may function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis. VEGF-C protein is over-expressed in various human cancers including breast cancer and prostate cancer. VEGF-C/VEGFR-3 axis, through different signaling pathways, plays a critical role in cancer progression by regulating different cellular functions, such as invasion, proliferation, and resistance to chemotherapy. Thus, targeting the VEGF-C/VEGFR-3 axis may be therapeutically significant for certain types of tumors.

Basic Information

Description

Recombinant Human Flt4 ligand/VEGF-C Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr103-Arg227) of human VEGF-C/Flt4-L/VRP (Accession #NP_005420.1) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human VEGF-C, His Tag at 0.5 μg/mL (100 μL/well) can bind recombinant human VEGFR3 (Catalog: RP00123), Fc Tag with a linear range of 0.02-8.14 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

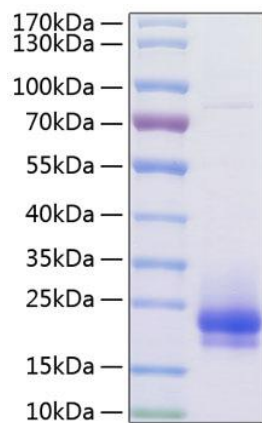
Contact

☎ | 400-999-6126

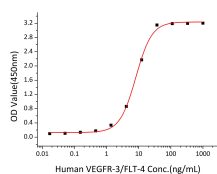
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Validation Data



Recombinant Human Flt4 ligand/VEGF-C Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured by its binding ability in a functional ELISA. Immobilized recombinant human VEGF-C, His Tag at 0.5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind recombinant human VEGFR3 (Catalog: RP00123), Fc Tag with a linear range of 0.02–8.14 ng/mL.