

Recombinant Mouse/Rat Flt4 ligand/VEGF-C Protein

Catalog No.: RP02804 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse/Rat	22341	P97953

Tags

C-His

Synonyms

VEGFC;Flt4-L;LMPH1D;VRP;VEGF-C

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
13.89 kDa	20-25 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

Vascular endothelial growth factor C (VEGF-C) is a member of the VEGF family. Upon biosynthesis, VEGF-C protein is secreted as a non-covalent monodimer 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 Mouse/Rat VEGF-C Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala108-Arg223) of mouse/rat VEGF-C (Accession #NP_033532.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse/Rat VEGF-C (Catalog: RP02804) at 2 μg/mL (100 μL/well) can bind Human VEGFR-3/FLT-4 (Catalog: RP00123) with a linear range of 0.0085-7.49 ng/mL.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

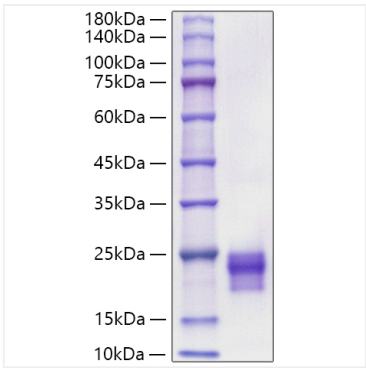
Avoid repeated freeze/thaw cycles.

Contact

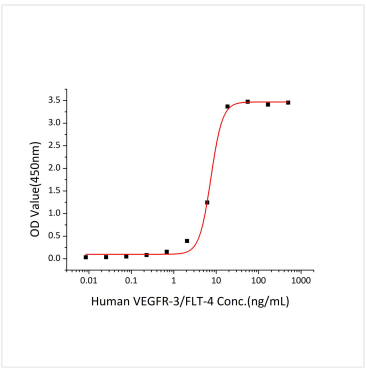
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Validation Data



Recombinant Mouse/Rat VEGF-C Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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