

# Mouse VEGF-C Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 50391-M08H

## General Information

### Gene Name Synonym:

AW228853; VEGF-C

### Protein Construction:

A DNA sequence encoding the mouse VEGFC (NP\_033532.1) (Ala108-Arg223) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Endotoxin:

< 1.0 EU per  $\mu$ g protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

**Predicted N terminal:** Ala 108

### Molecular Mass:

The recombinant mouse VEGFC consists of 127 amino acids and predicts a molecular mass of 14.5 kDa.

### 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:

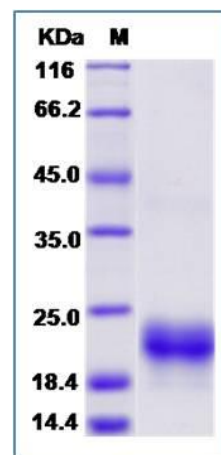
Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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 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.

## References

1. Joukov V, *et al.* (1997) Vascular endothelial growth factors VEGF-B and VEGF-C. *J Cell Physiol.* 173(2): 211-5.
2. Su JL, *et al.* (2007) The role of the VEGF-C/VEGFR-3 axis in cancer progression. *Br J Cancer.* 96(4): 541-5.
3. Anisimov A, *et al.* (2009) Activated forms of VEGF-C and VEGF-D provide improved vascular function in skeletal muscle. *Circ Res.* 104(11): 1302-12.

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