

Recombinant Mouse VEGFC Protein (Ala108-Arg223), His-tagged

Cat. No. VEGFC-825M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse VEGFC Protein (NP_033532.1) (Ala108-Arg223) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

Species Mouse

Source HEK293

ProteinLength Ala108-Arg223

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 momodimer 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.

Predicted N Terminal Ala 108

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and

 Tel: 1-631-559-9269 1-516-512-3133

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0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass

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

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

Purity

> 95 % as determined by SDS-PAGE.

Stability

Samples are stable for up to twelve months from date of receipt at -70 centigrade.

Storage

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

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.

Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name

Vegfc vascular endothelial growth factor C [Mus musculus]

Official Symbol

VEGFC

Synonyms

VEGFC; VRP; flt4-L; flt4 ligand; VEGF-C; AW228853;

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Gene ID	22341
mRNA Refseq	NM_009506
Protein Refseq	NP_033532
UniProt ID	P97953

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