Bioactive HuPro®

VEGFC (Human) Recombinant Protein

Catalog # P7485 Size 10 ug

Specification

Product Description	Human VEGFC (P49767, 112 a.a. - 227 a.a.) partial recombinant protein expressed with an N-terminal Met in HEK293 cells.
Sequence	AHYNTEILKSIDNEWRKTQCMPREVCIDVGKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSIIRR
Host	Human
Theoretical MW (kDa)	16 ~ 19
Form	Lyophilized
Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 0.2 EU/ ug of protein (gel clotting method)
Activity	ED_{50} < 0.5 ug/mL, measured in a cell proliferation assay using HMVEC human microvascular endothelial cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 ug/mL.
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

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- SDS-PAGE

Gene Info — VEGFC

Entrez GeneID	7424
Protein Accession#	P49767
Gene Name	VEGFC
Gene Alias	Flt4-L, VRP
Gene Description	vascular endothelial growth factor C
Omim ID	601528
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis and endothelial cell growth, and can also affect the permeability of blood vessels. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor D. [provided by RefSeq
Other Designations	FLT4 ligand DHM|vascular endothelial growth factor-related protein

Pathway

- Bladder cancer
- Cytokine-cytokine receptor interaction
- Focal adhesion
- mTOR signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Renal cell carcinoma

Disease

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- Angina Pectoris
- Anoxia
- Cardiovascular Diseases
- Chorioamnionitis
- Coronary Disease
- Diabetes Mellitus
- Edema
- Femur Head Necrosis
- Fetal Membranes
- Genetic Predisposition to Disease
- Lymphedema
- Myocardial Infarction
- Obstetric Labor
- Osteonecrosis
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth
- Tobacco Use Disorder

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