

## Active Recombinant Human VEGFC, His tagged

**Cat. No.** VEGFC-211H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human VEGFC mature form (NP_005420.1) (Thr 103-Arg 227), fused with a C-terminal polyhistidine tag, was produced in Human Cell.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Thr103-Arg227
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4
<b>Bio-activity</b>	<ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA. Immobilized VEGF C-his at 2 µg/mL (100 µL/well) can bind VEGFR3 hFc, the EC50 of VEGFR3 hFc is 2-15 ng/mL.</li> <li>2. Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4 nM.</li> <li>3. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 0.1-0.5 µg/mL.</li> <li>4. Captured VEGFR3/FLT4 Protein, Human on anti-Human IgG Fc via CM5 Chip can bind VEGF-C with an affinity constant of 31.82 pM as determined in a SPR assay (Biacore T200).</li> </ol>
<b>Molecular Mass</b>	The recombinant mature form of human VEGFC consists of 136 amino acids and has a predicted molecular mass of 15.5 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 22.5 kDa due to glycosylation.

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<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	VEGFC vascular endothelial growth factor C [ Homo sapiens ]
<b>Official Symbol</b>	VEGFC
<b>Synonyms</b>	VEGFC; vascular endothelial growth factor C; VRP; VEGF-C; FLT4 ligand DHM; vascular endothelial growth factor-related protein; Flt4-L;
<b>Gene ID</b>	7424
<b>mRNA Refseq</b>	NM_005429
<b>Protein Refseq</b>	NP_005420
<b>MIM</b>	601528
<b>UniProt ID</b>	P49767