

## VEGF-CC Protein, Human (196a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P70501
<b>Synonyms:</b>	Vascular Endothelial Growth Factor C; VEGF-C; Flt4 Ligand; Flt4-L; Vascular Endothelial Growth Factor-Related Protein; VRP; VEGFC
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P49767 (F32-R227)
<b>Gene ID:</b>	7424
<b>Molecular Weight:</b>	25-30 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> F E S G L D L S D A   E P D A G E A T A Y   A S K D L E E Q L R   S V S S V D E L M T V L Y P E Y W K M Y   K C Q L R K G G W Q   H N R E Q A N L N S   R T E E T I K F A A A H Y N T E I L K S   I D N E W R K T Q C   M P R E V C I D V G   K E F G V A T N T F F K P P C V S V Y R   C G G C C N S E G L   Q C M N T S T S Y L   S K T L F E I T V P L S Q G P K P V T I   S F A N H T S C R C   M S K L D V Y R Q V   H S I I R R           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The VEGF-CC Protein is a growth factor with significant activity in angiogenesis and endothelial cell growth, effectively stimulating their proliferation and migration while also influencing the permeability of blood vessels. This multifaceted protein is implicated in angiogenesis within both the venous and lymphatic vascular systems during embryogenesis and contributes to the maintenance of differentiated lymphatic endothelium in adults. VEGF-CC achieves these functions by binding and activating receptors KDR/VEGFR2 and FLT4/VEGFR3. Structurally, VEGF-CC exists as a homodimer, displaying a non-covalent and antiparallel arrangement. The protein's interaction with FLT4/VEGFR3 is crucial, as it is required for FLT4/VEGFR3 homodimerization and subsequent activation. These features collectively underscore the diverse roles of</p>
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VEGF-CC in regulating vascular processes and highlight its significance in both developmental and adult angiogenesis.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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