

## VEGF-CC Protein, Mouse/Rat (HEK293, His)

Cat. No.:	HY-P74474
Synonyms:	Flt4-L; vascular endothelial growth factor C; VEGFC; VRP
Species:	Mouse;Rat
Source:	HEK293
Accession:	P97953/NP_033532.1/O35757 (A108-R223)
Gene ID:	22341/22341/114111
Molecular Weight:	14-23 kDa

### PROPERTIES

AA Sequence	<p>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 A A T N T F</p> <p>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 G Y L    S K T L F E I T V P</p> <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</p>
Biological Activity	<p>1. Immobilized mouse/rat VEGFC-His at 10 µg/mL (100 µL/well) can bind mouse VEGFR3-Fc, The EC<sub>50</sub> of mouse VEGFR3-Fc is 17.4-40.6 ng/mL.</p> <p>2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED<sub>50</sub> for this effect is typically 0.1-2.612 µg/mL, corresponding to a specific activity of ≥ 382.85 units/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>VEGF-CC, a growth factor crucial in angiogenesis and endothelial cell dynamics, exerts stimulatory effects on cellular proliferation and migration, while also influencing the permeability of blood vessels. It plays a vital role in angiogenesis, particularly in the development of the venous and lymphatic vascular systems during embryogenesis. Additionally, VEGF-CC contributes to the maintenance of differentiated lymphatic endothelium in adults. The protein binds and activates the</p>
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KDR/VEGFR2 and FLT4/VEGFR3 receptors, orchestrating essential signaling pathways for vascular development and homeostasis. Structurally, VEGF-CC forms a homodimer with a non-covalent and antiparallel arrangement. Its interaction with FLT4/VEGFR3 is imperative for FLT4/VEGFR3 homodimerization and subsequent activation, highlighting the intricacies of its regulatory role in vascular processes.

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

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