

VEGF-CC Protein, Mouse/Rat (HEK293, Fc)

Cat. No.:	HY-P74475
Synonyms:	Flt4-L; vascular endothelial growth factor C; VEGFC; VRP
Species:	Rat;Mouse
Source:	HEK293
Accession:	P97953 (A108-R223)/O35757(A108-R223)
Gene ID:	22341/114111
Molecular Weight:	Approximately 44&34 kDa

PROPERTIES

Biological Activity	1.Immobilized mouse FLT4-His at 10 µg/mL (100 µL/well) can bind mouse/rat Fc-VEGFC and the EC ₅₀ is 0.41-0.95 µg/mL. 2.Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC) and the ED ₅₀ is typically 70-300 ng/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 ₂ O.
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	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 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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