

VEGF-C Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77865
Synonyms:	VEGFC; VEGF-CC; VEGFc; Flt4-L; VRP;
Species:	Human
Source:	HEK293
Accession:	Q6FH59 (T103-R227)
Gene ID:	7424
Molecular Weight:	Homodimer. Approximately 23-30 kDa on SDS-PAGE under reducing conditions

PROPERTIES

Biological Activity	<p>1. Immobilized Biotinylated Human VEGF-C, His Tag at 0.5 µg/mL (100 µl/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human VEGF R3, hFc Tag with the EC₅₀ of ≤9 ng/mL determined by ELISA.</p> <p>2. Immobilized Biotinylated Human VEGF-C, His Tag at 1 µg/mL (100 µl/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human VEGF R3, hFc Tag with the EC₅₀ of ≤9 ng/mL determined by ELISA.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 µm filtered solution in 50 mM MES, 150 mM NaCl (pH 6.0). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 50 mM MES, 150 mM NaCl (pH 6.0).
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>The VEGF-C Protein is a vital member of the PDGF/VEGF growth factor family, suggesting its involvement in essential cellular signaling pathways. As part of this growth factor family, VEGF-C likely shares structural and functional characteristics with related proteins, implicating its role in promoting cell growth, angiogenesis, and lymphangiogenesis. The membership in the PDGF/VEGF growth factor family highlights its significance in regulating vascular and lymphatic development. The study of VEGF-C contributes to our understanding of its specific functions within the context of the growth factor family, offering insights into potential therapeutic applications and its broader impact on cellular processes involved in tissue development and maintenance. Further exploration of VEGF-C's role can deepen our comprehension of its contribution to physiological and pathological conditions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA