

VEGF-D Protein, Human (HEK293)

Cat. No.:	HY-P7314
Synonyms:	rHuVEGF-D; Vascular endothelial growth factor D; FIGF
Species:	Human
Source:	CHO
Accession:	O43915 (F89-R205)
Gene ID:	2277
Molecular Weight:	Homodimer. 18-19 kDa on SDS-PAGE under reducing conditions

PROPERTIES

AA Sequence	F A A T F Y D I E T L K V I D E E W Q R T Q C S P R E T C V E V A S E L G K S T N T F F K P P C V N V F R C G G C C N E E S L I C M N T S T S Y I S K Q L F E I S V P L T S V P E L V P V K V A N H T G C K C L P T A P R H P Y S I I R R
Biological Activity	The ED ₅₀ is <1 µg/mL as measured by HUVEC cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 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. 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-D, a powerful lymphangiogenic and angiogenic growth factor, is also a major regulator of chylomicron metabolism in mice^[1]. Vascular endothelial growth factor D (VEGF-D) has important functions in lymphangiogenesis and angiogenesis. High plasma levels of VEGF-D have been associated with incidence of heart failure. The association of VEGF-D with atrial fibrillation (AF) and stroke is unclear and we hypothesised that VEGF-D could also be associated with incidence of AF and ischaemic stroke^[2].</p>
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REFERENCES

- [1]. Tirronen A, et al. Deletion of Lymphangiogenic and Angiogenic Growth Factor VEGF-D Leads to Severe Hyperlipidemia and Delayed Clearance of Chylomicron Remnants. 2018 Oct;38(10):2327-2337.
- [2]. Berntsson J1, et al. Increased vascular endothelial growth factor D is associated with atrial fibrillation and ischaemic stroke. Heart. 2018 Oct 16. pii: heartjnl-2018-313684.
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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