VEGF-DD Protein, Human (HEK293, His)

Cat. No.:	HY-P70495
Synonyms:	Vascular Endothelial Growth Factor D; VEGF-D; c-Fos-Induced Growth Factor; FIGF; VEGFD
Species:	Human
Source:	HEK293
Accession:	O43915 (F93-S201)
Gene ID:	2277
Molecular Weight:	Approximately 18.0 kDa

PROPERTIES

AA Sequence	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
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The VEGF-DD Protein, a growth factor with prominent activity in angiogenesis, lymphangiogenesis, and endothelial cell growth, plays a pivotal role in stimulating the proliferation and migration of these cells, while also influencing blood vessel permeability. Its potential involvement in the formation of both venous and lymphatic vascular systems during embryogenesis suggests a critical role in vascular development. Additionally, VEGF-DD may contribute to the maintenance of differentiated lymphatic endothelium in adults. The protein achieves these effects through binding and activation of VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors. Structurally, VEGF-DD exists as a homodimer, displaying a non-covalent and antiparallel arrangement, highlighting its multifaceted role in regulating vascular processes and underscoring its importance in both developmental and adult angiogenesis and lymphangiogenesis.

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

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