
Product Data Sheet

Product Name: VEGF D Human
Cat. No.: GP21055
Batch No.: 1

Product Data

Purity	>98%	Source	HEK293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	c-fos induced growth factor (vascular endothelial growth factor D); FIGF; VEGFD.		
Solubility	It is recommended to reconstitute the Vascular Endothelial Growth Factor D in sterile 18M-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The recombinant VEGF-D was lyophilized after extensive dialysis against PBS.		

Introduction

VEGF-D belongs to the VEGF/PDGF family of proteins. VEGF-D promotes lymphangiogenesis, endothelial cell growth, and regulates vascular permeability. In addition, VEGF-D has an important part in the creation of the venous and lymphatic vascular systems and in the growth and maintenance of differentiated lymphatic endothelium. Mature VEGF-D forms a noncovalently linked homodimer, and binds to and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4).

Biological Activity

The ED₅₀ of 3-4ng/ml is measured by its ability to stimulate the proliferation of human microvascular endothelial cells (HMVECs).

Stability

Lyophilized VEGF-D although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF-D should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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

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Background

VEGFD Human Recombinant produced in HEK-293 cells is a secreted protein (amino acids Phe93-Ser201) fused to a polyhistidine tag at the C-terminus.

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