

Catalog Number: HZ-1336

## **Data Sheet**





Animal Component-Free

**Human cell expressed** 

Tag-Free

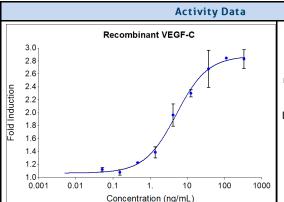
**Endotoxin Free** 

## **Product Description**

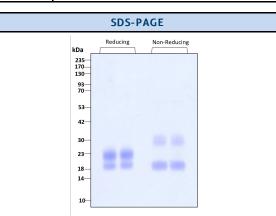
Vascular endothelial growth factor C (VEGFc) is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. VEGFC protein plays an essential role in angiogenesis (PMID: 9826710) and endothelial cell growth and migration (PMID: 18509061) and has a profound effect on the blood vasculature (PMID: 29484295). VEGFC can bind and activate signal transduction through both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. The biosynthesis and maturation of VEGFC is a complex stepwise proteolytic process (PMID: 9233800), during which its properties and affinities for its interaction partners change. Only the fully processed form can bind and activate VEGFR-2 receptors (PMID: 21148085). Diseases associated with VEGFC include lymphatic malformations (PMID: 32513927) and Milroy-like primary lymphedema (PMID: 23410910).

Alternative Names	FLT4 ligand, FLT4-L, Vascular endothelial growth factor related protein (VRP), VRP, VEGFC, VRPFLT4 ligand DHM	
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived VEGF-C protein	

Specifications					
Test	Method	Specification			
Activity	Dose-dependent production of luciferase in a Hek293T reporter cell line	2-16 ng/mL			
Molecular Mass	SDS-PAGE	18 and 28 kDa, homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



Recombinant human VEGF-C
(HZ-1336) induces dosedependent luciferase production in a HEK293T reporter cell line. Luciferase assay production was assessed by One-Step™ luciferase assay Kit. HEK293T reporter cells were treated with increasing concentrations of recombinant VEGF-C for 18 hours. The EC50 was determined using a 4-parameter non-linear



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Document #: FR-QA118-101 Rev 0
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Proteintech Group, Inc.

5500 Pearl Street, Suite 400 Rosemont, IL 60612 t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com

	Preparation				
Shipping Temperature ambient temperature					
Formulation	nulation 50 mM Acetate pH 4.5 + 250 mM NaCl				
Reconstitution  Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein at 0.2 mg/mL in ste containing 0.1% endotoxin-free recombinant serum albumin (HSA). Gently swirl or tap vial to m					

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)	
	Lyophilized	-20°C to -80°C	Until Expiry Date	
Stability and Storage	Lyophilized	Room Temperature	2 weeks	
_	Reconstituted as per CofA	-20°C to -80°C	6 months	
	Reconstituted as per CofA	4°C	1 week	
	Avoid repeated freeze-thaw cycles.			

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