

Recombinant Human VEGFC protein(Thr103-Arg227), His-tagged

Cat. No. VEGFC-2414H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFC (NP_005420.1) (Thr103-Arg227) was expressed in HEK293 with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	Thr103-Arg227
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	<ol style="list-style-type: none"> 1. Measured by its binding ability in a functional ELISA. Immobilized VEGF C-his at 2 µg/mL (100 µL/well) can bind VEGFR3 hFc, the EC₅₀ of VEGFR3 hFc is 2-15 ng/mL. 2. Scatchard analysis showed the affinity constant (K_d) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4 nM. 3. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED₅₀ for this effect is typically 0.1-0.5 µg/mL.
Molecular Mass	The recombinant mature form of human VEGFC consists of 136 amino acids and has a predicted molecular mass of 15.5 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 22.5 kDa due to glycosylation.
Endotoxin	< 1.0 EU per

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	µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	VEGFC vascular endothelial growth factor C [Homo sapiens]
Official Symbol	VEGFC
Synonyms	VEGFC; vascular endothelial growth factor C; VRP; VEGF-C; FLT4 ligand DHM; vascular endothelial growth factor-related protein; Flt4-L;
Gene ID	7424
mRNA Refseq	NM_005429
Protein Refseq	NP_005420
MIM	601528
UniProt ID	P49767

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