

# Human VEGF-165 Recombinant Protein

## Product Details

Size	100 µg
Species	Human
Published Species	Mouse, Human
Expression system	HEK293 cells
Amino acid sequence	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGGH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Molecular weight	40 kDa
Class	Recombinant
Type	Protein
Purity	95% by SDS-PAGE and HPLC
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 < 6 ng/mL; determined by the dose-dependent proliferation of HUVECs.
Conjugate	Unconjugated
Form	Lyophilized
Purification	sequential chromatography
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	5 Publications
Control (Ctrl)	Assay-dependent	-

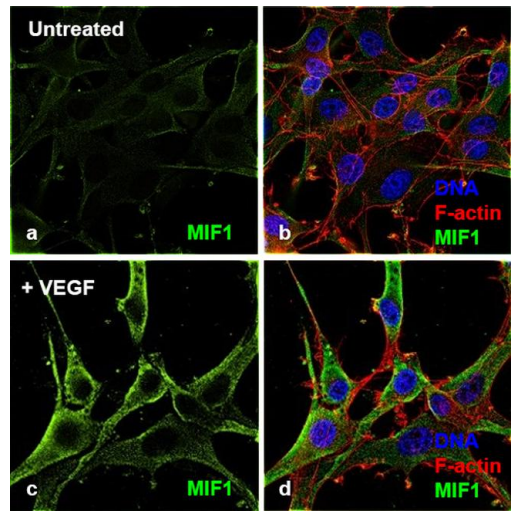
## Product Specific Information

### Carrier-Free

**Reconstitution:** Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, distilled water or appropriate buffered solution containing 0.1% BSA to regain full activity. Make any further dilutions of the reconstituted protein in buffered solution containing a carrier protein such as PBS with 0.1% BSA.

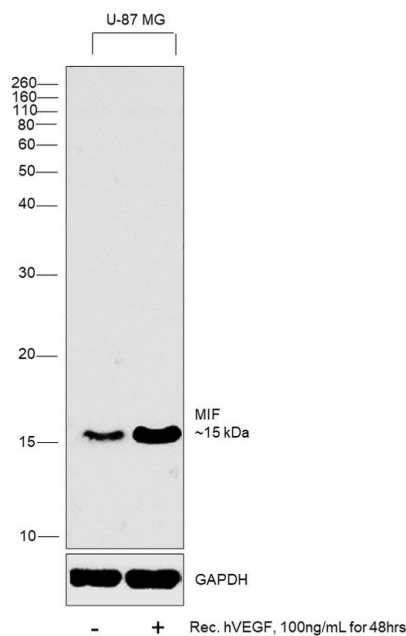
**Storage:** Store the lyophilized protein at 2-8°C or -20°C for long term storage, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles.

Product Images For Human VEGF-165 Recombinant Protein



Human VEGF-165 Protein (PHC9391) in FN

Immunofluorescence analysis of macrophage migration inhibitory factor (MIF) was performed using U-87 MG cells treated with 100 ng/mL human VEGF-165 recombinant protein (Product # PHC9391 ) for 48 hours. The cells were labeled with MIF polyclonal antibody (Product # PA5-81446) (Panel a & c; Green). The composite (b & d) represents merged image with DAPI (blue) and F-actin (red) staining. Cells treated with VEGF-165 displayed upregulation of MIF in comparison to untreated cells. The images were captured at 60X magnification.



Human VEGF-165 Protein (PHC9391) in FN

U-87 MG cells treated with 100 ng/mL human VEGF-165 recombinant protein (Product # PHC9391) for 48 hours. A western blot was performed using anti-macrophage migration inhibitory factor (MIF) monoclonal antibody (2Ar3) (Product # MA1-20881) and a 15 kDa band corresponding to MIF was upregulated upon VEGF-165 treatment. GAPDH was used as a loading control.

Functional Assay (5)

Frontiers in physiology	Year 2022
Human Umbilical Cord Mesenchymal Stem Cell Differentiation Into Odontoblast-Like Cells and Endothelial Cells: A Potential Cell Source for Dental Pulp Tissue Engineering.	Species Human
Authors: Zhang S,Zhang W,Li Y,Ren L,Deng H,Yin X,Gao X,Pan S,Niu Y	Dilution 50 ng/mL
Cell stem cell	Year 2021
Capturing Cardiogenesis in Gastruloids.	Species Mouse
Authors: Rossi G,Broguiere N,Miyamoto M,Boni A,Guiet R,Girgin M,Kelly RG,Kwon C,Lutolf MP	Dilution 5 ng/mL

[View more FN references on thermofisher.cn](#)

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