

Active GMP Recombinant Human VEGFA Protein

Cat. No. VEGFA-102HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA, Met1-Arg191, was produced in Sf 9 (baculovirus)-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	Insect Cells
ProteinLength	1-191 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in HCl.
Bio-activity	Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. Conn, G. et al. (1990) Proc. Natl. Acad. Sci. USA 87:1323. The ED50 for this effect is 1-6 ng/mL. The specific activity of recombinant human VEGF165 is approximately 1.7×10^3 U/µg, which is calibrated against recombinant human VEGF165 WHO Standard (NIBSC code: 02/286).
Molecular Mass	Predicted Molecular Mass: 19.2 (monomer) kDa SDS-PAGE: 19-21 kDa, reducing conditions
N-terminal Sequence Analysis	Ala27-Pro-Met-Ala-Glu-Gly-Gly-Gly-Gln-Asn
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.

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Purity	>97%, by SDS-PAGE with silver staining.
Storage	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS. Alternatively, reconstitute at 500 µg/mL in sterile 4 mM HCl.
Quality Statement	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor , VEGF; VEGF A; VPF
Gene ID	7422
mRNA Refseq	NM_001025366

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Protein Refseq	NP_001020537
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UniProt ID	P15692
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