

Recombinant Human VEGFA Protein (Met1-Arg136)

Cat. No. VEGFA-700H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA Protein (NP_001191313.1) (Met1-Arg136) was produced by Baculovirus-Insect Cells expression system.
Species	Human
Source	Insect Cells
ProteinLength	Met1-Arg136
Description	Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.
Predicted N Terminal	Ala 27
Form	Lyophilized from sterile 100 mM glycine, 10 mM NaCL pH 7.0, 10 % glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant human VEGFA consists of 110 amino acids and predicts a molecular mass of 12.7 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. 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 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Official Symbol	VEGFA
Synonyms	VEGFA; VEGF A; VPF; VEGF; MVCD1; MGC70609;
Gene ID	7422

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mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
UniProt ID	P15692

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