

# GMP Recombinant Porcine VEGFA Protein, His-Tagged

**Cat. No.** VEGFA-01P    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	GMP Recombinant Porcine VEGFA Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
<b>Species</b>	Porcine
<b>Source</b>	E.coli
<b>Description</b>	Vascular endothelial growth factor (VEGF), originally known as vascular permeability factor (VPF), is a signal protein produced by cells that stimulates the formation of blood vessels. VEGF is required during embryogenesis to regulate the proliferation, migration, and survival of endothelial cells. In adults, VEGF functions mainly in wound healing and the female reproductive cycle. Pathologically, it is involved in tumor angiogenesis and vascular leakage. Circulating VEGF levels correlate with disease activity in autoimmune diseases such as rheumatoid arthritis, multiple sclerosis and systemic lupus erythematosus. VEGF is induced by hypoxia and cytokines such as IL-1, IL-6, IL-8, oncostatin M and TNF-alpha.
<b>Form</b>	Lyophilized
<b>AA Sequence</b>	MAPMAEGDQKPHEVVKFMDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCVPLMRC GGCCNDEGLECVPTTEEFNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQ ENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR with polyhistidine tag at the C-terminus

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<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Notes</b>	Please use within one month after protein reconstitution.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

## GENE INFORMATION

<b>Gene Name</b>	VEGFA vascular endothelial growth factor A [ <i>Sus scrofa</i> (pig) ]
<b>Official Symbol</b>	VEGFA
<b>Synonyms</b>	VEGF
<b>Gene ID</b>	397157
<b>mRNA Refseq</b>	NM_214084.1
<b>Protein Refseq</b>	NP_999249.1
<b>UniProt ID</b>	P49151

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