Recombinant Murine Vascular Endothelial Growth Factor$_{120}$ (rmVEGF$_{120}$)
Catalog Number: 125-06

Description	VEGF was initially purified from media conditioned by normal bovine pituitary folliculo-stellate cells and by a variety of transformed cell lines as a mitogen specific for vascular endothelial cells. Three mouse cDNA clones, which arise through alternative splicing and which encode mature mouse monomeric VEGF having 120, 164, or 188, amino acids, respectively, have been identified. Two receptor tyrosine kinases (RTKs), Flt-1 and Flk-1 (the mouse homologue of human KDR), both members of the type III subclass of RTKs containing seven immunoglobulin-like repeats in their extracellular domains, have been shown to bind VEGF with high affinity. VEGF has been found to be a potent angiogenesis inducer *in vivo*.
Synonyms	VEGFA, VEGF-A, Vascular permeability factor (VPF), VEGF, Vegf188, Vegf164, Vegfa
AA Sequence	MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R
Source	*Escherichia coli*
Molecular Weight	Approximately 28.4 kDa disulfide-linked homodimeric protein consisting of two 121 amino acid polypeptide chains.
Purity	>96% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED_{50} is 2-4ng/ml, as determined by HUVEC cell proliferation.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.