

Datasheet for ABIN988286

VEGFA Protein



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	VEGFA
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	MAPTTEGEQK SHEVIKMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR
Characteristics:	Measured by its ability to induce proliferation of human umbilical vein endothelial cells. The ED50 for this effect is typically 2 - 4 ng/mL, corresponding to a specific activity of > 2.5×10 ⁵ units/mg.
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/μg of rmVEGF120 as determined by LAL method

Target Details

Target:	VEGFA
Alternative Name:	Vascular Endothelial Growth Factor 120 (VEGF120) (VEGFA Products)
Background:	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. It was subsequently found to be identical to an independently discovered vascular

Target Details

permeability factor (VPF), which was previously identified in media conditioned by tumor cell lines based on its ability to increase the permeability of capillary blood vessels. 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. The roles of the homodimers of KDR, Flt, and the heterodimer of KDR/Flt in VEGF signal transduction remain to be elucidated. In vivo, VEGF has been found to be a potent angiogenesis inducer. Synonym: Vascular Endothelial Growth Factor 120 (VEGF120), Mouse. Formulation: Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.

Molecular Weight:	Recombinant mouse VEGF120 is a 28.4 kDa disulfide-linked homodimeric protein consisting of two 121 amino acid polypeptide chains.
Pathways:	RTK Signaling , Glycosaminoglycan Metabolic Process , Regulation of Cell Size , Tube Formation , Signaling Events mediated by VEGFR1 and VEGFR2 , Platelet-derived growth Factor Receptor Signaling , VEGFR1 Specific Signals , VEGF Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.
Storage:	4 °C