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VEGF Recombinant Protein

CATALOG NUMBER: 40-491

Specifications

SPECIES:	Murine
SOURCE SPECIES:	E. coli
SEQUENCE:	MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	Biological activity was determined by the dose - dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 1.0 - 5.0 ng/mL.

Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized VEGF recombinant protein is stable for at least 2 years from date of receipt at -20˚C. Reconstituted VEGF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20˚C. As with any protein, exposing VEGF recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	Vpf, Vegf, Vascular endothelial growth factor A, Vascular permeability factor, VEGF-A
ACCESSION NO.:	NP_001273985.1
PROTEIN GI NO.:	559767228

Background

VEGF is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product. Recombinant murine VEGF is a 39.0 kDa disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide chains.

FOR RESEARCH USE ONLY

December 13, 2016