

Screening Libraries

Proteins

MCE MedChemExpre

Product Data Sheet

VEGF120 Protein, Mouse

Cat. No.: HY-P72775

Synonyms: VEGF-AA; Vascular endothelial growth factor A; VPF; VEGFA

Species: Mouse
Source: E. coli

Accession: Q00731-3 (A27-R146)

Gene ID: 22339

Molecular Weight: Approximately 28.4 kDa (Disulfide-linked homodimer)

PROPERTIES

AA Sequence	
AA Sequence	APTTEGEQKS HEVIKFMDVY QRSYCRPIET LVDIFQEYPD
	EIEYIFKPSC VPLMRCAGCC NDEALECVPT SESNITMQIM
	RIKPHQSQHI GEMSFLQHSR CECRPKKDRT KPEKCDKPRR
Biological Activity	The cell proliferation assay using human umbilical vein endothelial cells has an ED50 value of less than 5 ng/ml;
	corresponding to a specific activity of $> 2.0 \times 10^5$ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg; determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O. For long term storage it is
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is
	recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

VEGF-A is a key member of the VEGF family of cytokines, along with VEGF-B, -C, -D, and PGF. VEGF-A participates in angiogenesis, vasculogenesis, and endothelial cell growth, inducing endothelial cell proliferation, promoting cell migration, inhibiting cell apoptosis, and inducing vascular permeability. VEGF-A binds to the FLT1/VEGFR1, KDR/VEGFR2 and DEAR/FBXW7-AS1 receptors, heparan sulfate and heparin. VEGF-A also binds to NRP1 initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. VEGF-A stimulates endothelial cell mitogenesis and cell

Page 1 of 2 www.MedChemExpress.com



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Page 2 of 2 www.MedChemExpress.com