Datasheet for ABIN2746007

VEGFA Protein

Go to Product page

Overview

Quantity:	5 µg
Target:	VEGFA
Origin:	Mouse
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	VEGF 164 (mouse) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	Mouse VEGF 164 (164aa).
Purity:	>95 % (SDS-PAGE)
Biological Activity Comment:	The ED50 for stimulation of cell proliferation by human umbilical vein endothelial cells for VEGF 164 has been determined to be in the range of 1-5ng/ml.

Target Details

Target:	VEGFA
Alternative Name:	VEGF 164 (VEGFA Products)
Background:	Vascular Endothelial Growth Factor, VEGF-A, VPF

Target Details

	Mouse vascular endothelial growth factor 164 (VEGF 164) is produced as a homodimer. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. It is a specific mitogen for vascular endothelial cells and a strong angiogenic factor in vivo. In addition to its action as a mitogen it is a potent vascular permeability factor (VPF) in vivo and is also a chemoattractant for monocytes and endothelial cells. It induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It may play a role in increasing vascular permeability during lactation, when increased transport of molecules from the blood is required for efficient milk protein synthesis.
Molecular Weight:	~48kDa
UniProt:	Q00731
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

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with 50 mM acetic acid to a concentration not lower than 50 µg/mL.
Handling Advice:	After reconstitution, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. For long term storage we recommend to add at least 0.1 % human or bovine serum albumin.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 6 months after receipt when stored at -20°C.
Expiry Date:	6 months