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Datasheet for ABIN2746007

VEGFA Protein

Overview

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

Product Details

Cross-Reactivity:	Mouse (Murine)
Characteristics:	Mouse VEGF 164 (164aa).
Purity:	>95 % (SDS-PAGE)

Target Details

Target:	VEGFA
Alternative Name:	VEGF 164 (VEGFA Products)
Background:	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,

Target Details

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.

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.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with 50 mM acetic acid to a concentration not lower than 50 µg/mL.

Concentration: Lot specific

Buffer: Lyophilized.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Stable for at least 6 months after receipt when stored at -20°C.

Expiry Date: 6 months