Datasheet for ABIN6700860

VEGFA Protein

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Overview

Quantity:	100 µg
Target:	VEGFA
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Vascular Endothelial Growth Factor-120 Recombinant Protein
Purification:	Vascular Endothelial Growth Factor-120 purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) and is typically 1-5 ng/mL.

Target Details

Target:	VEGFA
Alternative Name:	Vegfa (VEGFA Products)
Background:	Synonyms: VEGF-A, glioma-derived endothelial cell mitogen, Vascular permeability factor (VPF)

Target Details

	Background: Vascular Endothelial Growth Factor-A (VEGF-A) was originally isolated from tumor cells and is produced by a wide variety of cell types. In addition to stimulating vascular growth and vascular permeability, VEGF-A may play a role in stimulating vasodilation via nitric oxide-dependent pathways. Mouse VEGF-A has several variants, one being VEGF-120. Rat and bovine VEGF are one amino acid shorter than the human factor, and the bovine and human sequences show a homology of 95 % . Recombinant mouse VEGF-120 is an alternative spliced version of mouse VEGF-165. It is a non-glycosylated homodimer, containing two chains, with a molecular weight of 28.2 kDa.
UniProt:	Q00731-3
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:	Application Note: Vascular Endothelial Growth Factor-120 Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Vascular Endothelial Growth Factor-120 in immunological assays. Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Handling

	opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months