

Datasheet for ABIN2667604
VEGFA Protein (AA 27-146)



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Overview

Quantity:	10 µg
Target:	VEGFA
Protein Characteristics:	AA 27-146
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	Purity is >98 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin level is <0.1 EU/µg (<0.01 ng/µg) protein as determined by the LAL method.

Target Details

Target:	VEGFA
Alternative Name:	VEGF120 (VEGFA Products)
Background:	VegfA belong to the VEGF family which has at least 7 members, VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, PlGF and snake venom-derived VEGFs such as T.f. (Trimeresurus flavoviridis) svVEGF. In humans, VEGF-A is highly expressed in most of the solid tumors generated in breast, lung, renal, colorectal and liver tissues. VEGF-A has strong vascular permeability activity,

Target Details

and significantly contributes to the formation of ascites tumors. VEGF can act as a direct proinflammatory mediator during the pathogenesis of RA, and protect rheumatoid synoviocytes from apoptosis, which contributes to synovial hyperplasia. VEGF is expressed in synovial macrophages and synovial fibroblasts in the synovial tissues of RA patients.

Molecular Weight: The 120 amino acid recombinant protein has a predicted molecular mass of approximately 14,071 Da. This protein exists as a disulfide-linked homodimer. The DTT-reduced protein migrates at approximately 15kDa and the non-reduced protein migrates as a homodi

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: Biological activity: ED50 = 1-4 ng/ml, corresponding to a specific activity of 1-0.25 x 10⁶ units/mg, as determined by the dose dependent stimulation of HUVEC cells proliferation.

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored from -20 °C to -70 °C. Stock solutions can also be prepared at 50-100 µg/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored in working aliquots at -20 °C to -70 °C.

Buffer: 0.22µm filtered protein solution is in 5 mM Citric Acid, 5 mM NaH₂PO₄, 150 mM NaCl, pH 4.0.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored between 2°C and 8°C for one month, at -20°C for six months, or at -70°C for one year.