

Datasheet: PHP293

Description:	RECOMBINANT HUMAN VEGF-A
Name:	VEGF-A
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	0.2 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is						
	derived from testing within our laboratories, peer-reviewed publications or personal						
	communications from the originators. Please refer to references indicated for further						
	information. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols						
		Yes	No	Not Determined	Suggested Dilution		
	ELISA						
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its use in such procedures. Suggested working dilutions are given as						
	a guide only. It is recommended that the user titrates the product for use in their own						
	system using appropriate	e negative	/positive	controls			
	eyetenn denng appropriat	onoganie	, poolaro				
Target Species	Human						
Product Form	Purified recombinant pro	otein - Iyop	ohilized				
Reconstitution	Centrifuge vial prior to re Care should be taken du bottom of the vial. Mix ge	econstitution aring recon ently after	on. Recor nstitution a reconstitu	nstitute to 0.5 mg/ml by as the protein may app ution. Do not vortex.	y adding 0.4 ml ddH ₂ O. bear as a film at the		
Preparation	Recombinant protein exp	pressed in	n <i>E. coli</i> ar	nd purified by affinity c	hromatography		
Source	E.coli						
Buffer Solution	20 mM Phosphate Buffe	r, 0.1 M S	odium Ch	loride			
Preservative Stabilisers	1% Trehalose						
Approx. Protein Concentrations	0.5 mg/ml after reconstit	ution					
External Database Links	UniProt:						

P15692 Related reagents

Product Information	Recombinant Human VEGF-A	
	Vascular endothelial growth factor alpha forms a homodimer an	nd is a potent stimulator of
	angiogenesis of both normal and cancerous cells. It acts as a r	egulator of vasculogenesis,
	angiogenesis and endothelial cell growth. VEGF-A is secreted	by many different cell types
	such as endothelial cells (Nissen et al. 1998), smooth muscle of	cells (<u>Brogi <i>et al.</i> 1994</u>),
	neutrophils (<u>Gaudry <i>et al.</i> 1997</u>), platelets (<u>Banks <i>et al.</i> 1998</u>),	macrophages and 60% of
	all tumours (Berse <i>et al.</i> 1992).	
	The sequence of this recombinant protein product is amino aci	d (aa) 27 - aa 141 +
	CDKPRR but deficient from aa 142-226, and it is closest to iso	form 121. Isoform 121 and
	111 lack exons 6 and 7, and for this reason neither of these isc	forms bind to the
	extracellular matrix (Krilleke et al. 2017). This product has been	n demonstrated for use, in a
	pharmacokinetic (PK) antigen capture ELISA with the monoclo	nal antibody drugs
	ranibizumab and bevacizumab using anti-ranibizumab antibodi	es for detection.
Protein Molecular	Predicted 14 kDa. The apparent molecular mass of the human	VEGF-A monomer is
Weight	approximately 17 kDa determined by SDS-PAGE under reducing	ng conditions, and 17 kDa
	(monomer) and 30 kDa (dimer) under non-reducing conditions.	
Purity	≥90% determined by SDS-PAGE under reducing conditions an	d visualized by coomassie
	blue staining	
Amino Acid APMAEG Sequence CVPTEE	GGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPS SNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQEK(SCVPLMRCGGCCNDEGLE CDKPRR
Storage	Prior to reconstitution store at -70°C. Following reconstitution s	tore at -20ºC.
	This product should be stored undiluted.	
	Storage in frost-free freezers is not recommended. Avoid repea	ated freezing and thawing
	as this may denature the protein.	
Guarantee	Guaranteed for 3 months from the date of reconstitution or unti	I the date of expiry,
	whichever comes first. Please see label for expiry date.	
Health And Safety	Material Safety Datasheet documentation #20395 available at:	
Information	https://www.bio-rad-antibodies.com/SDS/PHP293	
	20395	
Regulatory	For research purposes only	

Related Products

Recommended Useful Reagents

HUMAN ANTI RANIBIZUMAB (DRUG/TARGET COMPLEX) (HCA304) HUMAN ANTI RANIBIZUMAB (HCA307)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21	
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	То
	Email: antibody_sales_us@bio-rac	l.com	Email: antibody_sales_uk@bio-rad	d.com	Email: antibody_sales_de@bio-rad.	find a
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets						
			'M433628:241118'			

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