

# PE-04AGM99-P

## VEGFR2 (1051-1057) pY1054 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on VEGFR2 (KDR)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Vascular endothelial growth factor receptor 2 ; Vascular endothelial growth factor receptor-tyrosine kinase 2 (Flk1)
<b>Name Alias:</b>	A type III receptor tyrosine kinase; CD309; FLK1; Kinase insert domain receptor; Protein-tyrosine kinase receptor Flk-1; Vascular endothelial growth factor receptor 2; VEGFR; VEGFR2; VGR2; CD309; CCDS3497.1; ENSG00000128052
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P35968

### Peptide Structure

<b>Peptide Name:</b>	VEGFR2 (1051-1057) pY1054
<b>Peptide Origin:</b>	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	R1051-P1057
<b>Peptide Sequence:</b>	RDI(pY)KDP(bA)C
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1160.17
<b>Observed Peptide Mass:</b>	1158.2
<b>% Peptide Purity:</b>	99.6
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KMP04CAV-33
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20°C
<b>Storage Stability:</b>	Over 1 year at -20°C

### Applications

<b>Product Use:</b>	Serves as a blocking peptide for use with the VEGFR2-pY1054 rabbit polyclonal antibody (Cat. No.: PK852) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.
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This product is for in vitro research use only and is not intended for use in humans or animals.

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