

# PE-04ADS75-P

## p38a (177-182) pT180+pY182 Peptide Powder

8-mer immunogen and phosphatase substrate phosphopeptide based on p38a MAPK (MAPK14)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Mitogen-activated protein-serine kinase p38 alpha; Mitogen-activated protein kinase 14
<b>Name Alias:</b>	CRK1; CSAID binding protein; CSBP; CSBP1; CSBP2; CSPB1; Cytokine suppressive anti-inflammatory drug binding protein; Kinase p38-alpha; MAPK14; PRKM15; p38a MAPK; SAPK2A; Mxi2; CCDS4815.1; ENSG00000112062
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q16539

### Peptide Structure

<b>Peptide Name:</b>	p38a (177-182) pT180+pY182
<b>Peptide Origin:</b>	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	D177-Y182
<b>Peptide Sequence:</b>	DEM(pT)G(pY)(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>	1048.9
<b>Observed Peptide Mass:</b>	1047.4
<b>% Peptide Purity:</b>	75.3
<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>	KMP04CAT-44
<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 p38a-pT180+pY182 rabbit polyclonal antibody (Cat. No.: PK739) 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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