

# PE-04AOZ95-P

## PKD1 (735-745) pS738+pS742 Peptide Powder

13-mer immunogen and phosphatase substrate phosphopeptide based on PKC $\mu$  (PRKCM, PRKD1, PKD1)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Protein-serine kinase C mu (Protein kinase D)
<b>Name Alias:</b>	Kinase PKD1; KPCD1; NPKC-mu; PKCM; PKC-mu; PKD; PRKCM; PRKD1; Protein kinase D1; Protein kinase C, mu type; Protein kinase D; ENSG00000184304
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q15139

### Peptide Structure

<b>Peptide Name:</b>	PKD1 (735-745) pS738+pS742
<b>Peptide Origin:</b>	In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Sequence Location:</b>	G735-G745
<b>Peptide Sequence:</b>	GEK(pS)FRR(pS)VVG(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>	1554.6
<b>Observed Peptide Mass:</b>	1554.0
<b>% Peptide Purity:</b>	95.2
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 $\mu$ l DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KMP04CAX-89
<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 PKC $\mu$ -pS738+pS742 rabbit polyclonal antibody (Cat. No.: PK771) 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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