

# PE-04AEX85-P

## PIK3R1 (577-583) pY580 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on PIK3R1



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Phosphatidylinositol 3-kinase regulatory subunit alpha
<b>Name Alias:</b>	GRB1; P85; P85A; P85-ALPHA; Phosphatidylinositol 3-kinase regulatory alpha subunit; Phosphoinositide-3-kinase, regulatory subunit 1 (alpha); PI3K; PI3K p85-alpha; PI3-kinase p85-alpha; PtdIns-3-kinase p85-alpha
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P27986

### Peptide Structure

<b>Peptide Name:</b>	PIK3R1 (577-583) pY580
<b>Peptide Origin:</b>	In the region between the two SH2 domains in the C-terminus half of the protein. This is one of the major in vivo phosphorylation sites in PIK3R1.
<b>Peptide Sequence Location:</b>	R577-W583
<b>Peptide Sequence:</b>	RDQ(pY)LMW(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>	1264.4
<b>Observed Peptide Mass:</b>	1264.8
<b>% Peptide Purity:</b>	83.1
<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>	KMP04CAU-29
<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 PIK3R1-pY580 rabbit polyclonal antibody (Cat. No.: PN527) 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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