

# PE-04AQU90-P

## 4E-BP1 (33-40) pT37+pT46 Peptide Powder

10-mer immunogen and phosphatase substrate phosphopeptide based on 4E-BP1 (PHAS1)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	4E transcription factor binding protein 1
<b>Name Alias:</b>	4EBP1; EIF4EBP1; Eukaryotic translation initiation factor 4E binding protein 1; Insulin-stimulated EIF-4E binding protein PHAS-I; P,OKCL.6; P/OKCL.6; PHAS-1; PHAS-I; Phosphorylated heat- and acid-stable protein regulated by insulin 1
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	Q13541

### Peptide Structure

<b>Peptide Name:</b>	4E-BP1 (33-40) pT37+pT46
<b>Peptide Origin:</b>	In the N-terminal portion of the translation regulatory protein. This is one of the major in vivo phosphorylation sites in 4E-BP1.
<b>Peptide Sequence Location:</b>	D33-G40
<b>Peptide Sequence:</b>	DYST(pT)PGG(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>	1050.0
<b>Observed Peptide Mass:</b>	1049.3
<b>% Peptide Purity:</b>	91.4
<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>	KMP04CAY-04
<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 4E-BP1-pT37+pT46 rabbit polyclonal antibody (Cat. No.: PN550) 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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