

# PE-04ACV80-P

## G6PD (398-404) pY401 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on G6PD



**KINEXUS**

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Glucose-6-phosphate 1-dehydrogenase
<b>Name Alias:</b>	G6PD; G6PD1; Glucose-6-phosphate 1-dehydrogenase; glucose-6-phosphate dehydrogenase; glucose-6-phosphate dehydrogenase, G6PD
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P11413

### Peptide Structure

<b>Peptide Name:</b>	G6PD (398-404) pY401
<b>Peptide Origin:</b>	In the G6PD_C domain. One of the major in vivo phosphorylation sites in G6PD.
<b>Peptide Sequence Location:</b>	E398-M404
<b>Peptide Sequence:</b>	EAV(pY)TKM(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>	1095.2
<b>Observed Peptide Mass:</b>	1093.2
<b>% Peptide Purity:</b>	82.2
<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-19
<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 G6PD-pY401 rabbit polyclonal antibody (Cat. No.: PN515) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.
---------------------	--

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINASES (546-2737)