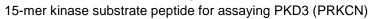
# PE-01AJB95-P KinSub1RRGSF Peptide Powder





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## **Target Protein**

| Name Long:  | Protein-serine kinase C nu; Serine/threonine-protein kinase D3  |
|-------------|---|
| Name Alias: | EPK2; KPCD3; NPKC-nu; PRKCN; PRKD3; Protein kinase C, nu type; Protein kinase D3; Protein kinase EPK2 |
| UniProt ID: | O94806  |

## Peptide Structure

| Peptide Name:                       | KinSub1RRGSF  |
|-------------------------------------|---|
| Peptide Origin:                     | KinSub1RRGSF was originally identified using a microarray with peptides that were predicted as optimal substrates for 500 human protein kinases with a proprietary algorithm developed at Kinexus with our academic partners. |
| Peptide Sequence Location:          | Not applicable  |
| Peptide Sequence:                   | GGLGRRGSFANLGHL   |
| Peptide N-Terminus:                 | Free amino  |
| Peptide C-Terminus:                 | Amide   |
| <b>Peptide Modifications Other:</b> | None  |

### Production

| Peptide Production Method: | Solid-phase peptide synthesis   |
|----------------------------|---|
| Calculated Peptide Mass:   | 1510.7  |
| % Peptide Purity:          | > 95  |
| Peptide Appearance:        | White powder  |
| Peptide Form:              | Solid   |
| Peptide Solubility:        | Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer |
| Amount:                    | 1 mg  |
| Storage Conditions:        | Frozen at -20°C   |
| Storage Stability:         | Over 1 year at -20°C  |

## **Applications**

| Product Use: | For assaying the phosphotransferase activity of Protein-serine kinase C nu;<br>Serine/threonine-protein kinase D3 (PKD3, UniProt ID O94806). The<br>KinSub1RRGSF peptide demonstrated very high phosphotransferase activity |
|--------------|---|
|              | with PAK5 (PAK7), and exhibited moderate specificity when assayed with over   |
|              | 200 other protein kinases. A listing of other kinases that show appreciable   |
|              | phosphotransferase activity towards this peptide are listed in Table 1.   |

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 <u>www.kinexusproducts.ca</u> or contact us at 1-866-KINASES (546-2737)