

PE-01ALH95-P

KinSub6RRLSP Peptide Powder

15-mer kinase substrate peptide for assaying CaMK2g



KINEXUS

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

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Calcium/calmodulin-dependent protein-serine kinase 2 gamma
Name Alias:	Calcium/calmodulin-dependent protein kinase II gamma; CaM kinase II gamma subunit; CaMK2-gamma; CAMKG; CaMK-II gamma; CaMK-II gamma subunit; CaM-kinase II gamma; CaM-kinase II gamma chain; EC 2.7.11.17; Kinase CaMK2-gamma
UniProt ID:	Q13555

Peptide Structure

Peptide Name:	KinSub6RRLSP
Peptide Origin:	KinSub6RRLSP 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:	HIRGRRLSPGVVGIR
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1672
% 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 Calcium/calmodulin-dependent protein-serine kinase 2 gamma (CaMK2g, UniProt ID Q13555). The KinSub6RRLSP peptide demonstrated high phosphotransferase activity with CaMK2g, 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 www.kinexusproducts.ca or contact us at 1-866-KINASES (546-2737)