PE-01ALK95-P

KinSub7RRKSF Peptide Powder

15-mer kinase substrate peptide for assaying PKCb (PRKCB1)

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

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

Target Protein

Name Long:	Protein-serine kinase C beta 1
Name Alias:	Kinase PKC-beta; KPCB; MGC41878; PKC II; PKC-B; PKC-beta; PKC-II; PRKCB; PRKCB1; PRKCB2; Protein kinase C, beta type
UniProt ID:	P05771

Peptide Structure

Peptide Name:	KinSub7RRKSF
Peptide Origin:	KinSub7RRKSF 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:	GGRFRRKSFRRKGHG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1801.1
% 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 beta 1 (PKCb2, UniProt ID P05771). The KinSub7RRKSF peptide demonstrated very high phosphotransferase activity with CHK2, and exhibited very low 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.