PE-01AJV95-P

KinSub2DDLYP Peptide Powder

15-mer kinase substrate peptide for assaying EphA1

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Target Protein

Name Long:	Ephrin type-A receptor 1 protein-tyrosine kinase
Name Alias:	EPA1; EPH; EPH receptor A1; Ephrin type-A receptor 1; EPHT; EPHT1; MGC163163; Tyrosine-protein kinase receptor EPH; CCDS5884.1; P21709; A1L3V3; ENSG00000146904
UniProt ID:	P21709

Peptide Structure

Peptide Name:	KinSub2DDLYP
Peptide Origin:	KinSub2DDLYP 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:	GGGEDDLYPYVGGGG
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1411.4
% 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 Ephrin type-A receptor 1 protein-tyrosine kinase (EphA1, UniProt ID P21709). The KinSub2DDLYP peptide demonstrated high phosphotransferase activity with EphA1, 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.