

PE-14CAD90-P

JNKSelectideA Peptide Powder

30-mer kinase substrate peptide for assaying JNK1 (MAPK8)



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:	Jun N-terminus protein-serine kinase (stress-activated protein kinase (SAPK)) 1
Name Alias:	c-Jun N-terminal kinase 1; JNK; JNK1A2; JNK1-alpha-2; JNK-46;JNK21B1/2; JUN N-terminal kinase; Kinase JNK1; MAPK8; MK08; PRKM8; SAPK1; SAPK1c; Stress-activated protein kinase JNK1; CCDS7225.1; ENSG00000107643
UniProt ID:	P45983

Peptide Structure

Peptide Name:	JNKSelectideA
Peptide Origin:	Developed by Kinexus based on alignment of known substrates and Kinexus Kinase Substrate Predictor v2.0 algorithm.
Peptide Sequence Location:	Not applicable
Peptide Sequence:	GKRPNRLNLPL(AOOx3)GLLTPLLTPLLTPGGC (AOO=8-amino-3,6-dioxaooctanoyl)
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	None

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	3259.9
Observed Peptide Mass:	3259.8
% Peptide Purity:	91.2
Peptide Appearance:	White powder
Peptide Form:	Solid
Peptide Solubility:	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
Lot Number:	KSP14CAD
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 JNK isoforms. The K_m of JNK1 for JNKSelectide A is 32 µM, which is similar to the K_m 's for ERK2 (25 µM) and p38a (13 µM), but 3-times lower than for CDK5/p35 (105 µM) for this peptide. JNKSelectideA seems to be phosphorylated 10X better by ERK2 and 5X better by p38a, and 1.3X better by CDK5 than by JNK1. However, JNKSelectideA is 26X more potent than JNKSubtide, which was 9X more selective for CDK5 than JNK1.
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This product is for in vitro research use only and is not intended for use in humans or animals.

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