

L-JNK1 Control Peptide (control for #7011-50)

CATALOG #: 7021-50
AMOUNT: 50 µl (1 mM in PBS)
LOT #: _____

BACKGROUND AND APPLICATIONS:

A protein inhibitor named JIP-1/IB1 has been described that competitively blocks the interaction between JNK and c-Jun, thereby inhibiting the signaling events downstream of JNK, like c-Jun, ATF-2 and ELK1 phosphorylation. To convert JIP-1/IB-1 into cell permeable inhibitors of JNK (JNK11) the minimal 20 amino acids inhibitory sequence of JIP-1/IB1 was covalently linked to the 10 amino acids recognized by TAT transporter. The L-JNK11 is a potent inhibitor that is specific for JNK and can be used for *in vitro* applications. The L-TAT (JNK11 Control Peptide) can be used as appropriate control peptide.

STORAGE: -20°C

QUALITY CONTROL:

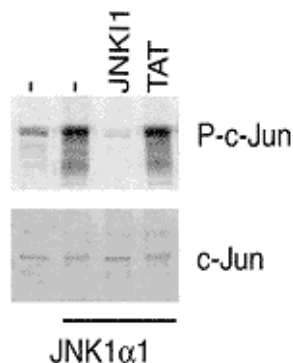


Figure 1: Inhibition of c-Jun phosphorylation by recombinant L-JNK11 *in vitro*. The kinase assays with recombinant JNK1µ1 enzyme (produced in a reticulocyte lysate system, lane 2-4) in the presence or absence of L-JNK11 or JNK11 Control Peptide (TAT) in a final concentrations (20 µM) were performed as described in Ref. [1]. In the upper panel the degree of JNK inhibition is determined by autoradiography of ³²P-labelled c-Jun (aa 1-79). Coomassie staining of the gel (Lower panel) shows that equal amounts of the c-Jun substrate was applied in all lanes. Note: a) A minus indicates no peptide inhibitor or peptide control added. b) The signal in the first lane without the recombinant JNK1µ1 added results from JNK background activity in the reticulocyte lysate that was used to produce JNK1µ1.

REFERENCES:

[1] Bonny, C., *et al.* (2001) Cell-Permeable peptide inhibitors of JNK: Novel blocker of -cell death. *Diabetes* 50,77.

For Research Use Only! Not to be used in human.

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