

**L-JNK11** (c-Jun N-terminal Kinase Peptide Inhibitor 1, L-stereoisomer)

CATALOG #: 7011-50

SEQUENCE: GRKKRRQRRR-PP-RPKRPTTLNLFQVPRSQD-amide  
C<sub>164</sub>H<sub>286</sub>N<sub>66</sub>O<sub>40</sub>

M. Wt.: 3822.5

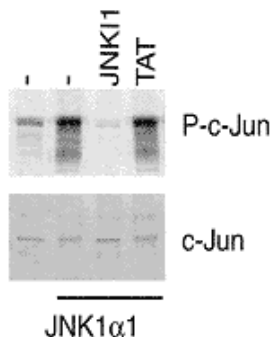
AMOUNT: 50 µl (1 mM in PBS)

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.

STORAGE: -20°C

**QUALITY CONTROL:**

**Figure 1: Inhibition of c-Jun phosphorylation by recombinant L-JNK11 *in vitro*.** The kinase assays with recombinant JNK1 $\alpha$ 1 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 <sup>32</sup>P-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 JNK1 $\alpha$ 1 added results from JNK background activity in the reticulocyte lysate that was used to produce JNK1 $\alpha$ 1.

rev. 04/06

**REFERENCES:**

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

**RELATED PRODUCTS:**

## Apoptosis Detection Kits &amp; Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Proliferation &amp; Senescence

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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