
Product Data Sheet

Product Name: L-JNKI-1
Cat. No.: GC34275

Chemical Properties

Cas. No.

SMILES Asp-Gln-Ser-Arg-Pro-Val-Gln-Pro-Phe-Leu-Asn-Leu-Thr-Thr-Pro-Arg-Lys-Pro-Arg-Pro-Pro-Arg-Arg-Arg-Gln-Arg-Arg-Lys-Lys-Arg-Gly-NH₂

Formula C₁₆₄H₂₈₆N₆₆O₄₀ M.Wt 3822.44

Solubility Water: ≥ 100 mg/mL (26.16 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Protocol**Animal experiment:**

Rats[1]Six-week-old male SD rats are used. The rats are injected with a bolus of JNK peptide inhibitor L-JNKI-1 (5 mg/kg) followed by infusion of JNKI 1 (5 mg/kg per hour) until the completion of the experiment. After a 30-minute infusion of JNK inhibitor, the pressor response to Ang II at the 3 doses described above is determined at 30-minute intervals[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. Zhou MS, et al. Role of c-Jun N-terminal kinase in the regulation of vascular tone. J

Cardiovasc Pharmacol Ther. 2010 Mar;15(1):78-83.

[2]. Borsello T, et al. A peptide inhibitor of c-Jun N-terminal kinase protects against excitotoxicity and cerebral ischemia. Nat Med. 2003 Sep;9(9):1180-6.

Background

L-JNKI-1 is a cell-permeable peptide inhibitor specific for JNK.

L-JNKI-1 has been shown to effectively inhibit JNK activity in in vivo studies. It is shown that Ang II induces a dose-dependent pressor response, which was significantly attenuated by JNK inhibition[1]. It is also found that 10 μ M L-JNKI-1 decreases phosphorylated c-Jun by 98% and phosphorylated Elk-1 by 100%. L-JNKI-1 is able to cross the blood-brain barrier and penetrate neurons of adult mice and P5 rats within 1 h after an intraperitoneal injection[2].

[1]. Zhou MS, et al. Role of c-Jun N-terminal kinase in the regulation of vascular tone. J Cardiovasc Pharmacol Ther. 2010 Mar;15(1):78-83. [2]. Borsello T, et al. A peptide inhibitor of c-Jun N-terminal kinase protects against excitotoxicity and cerebral ischemia. Nat Med. 2003 Sep;9(9):1180-6.

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