

L-JNKI-1

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | TP1353 |
| Formula: | C ₁₆ H ₂₈ N ₆ O ₄ |
| Molecular Weight: | 3822.44 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

| | |
|-------------|--|
| Description | L-JNKI-1 is a cell-permeable peptide inhibitor specific for JNK, it has been shown to effectively inhibit JNK activity in in vivo studies. |
| In vivo | 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 across the blood-brain barrier and penetrate neurons of adult mice and P5 rats within 1 h after an intraperitoneal injection[2]. |

Solubility Information

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|------------|---|
| Solubility | H ₂ O: 100 mg/mL (26.16 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|----------|
| 1 mM | 0.262 mL | 1.308 mL | 2.616 mL |
| 5 mM | 0.052 mL | 0.262 mL | 0.523 mL |
| 10 mM | 0.026 mL | 0.131 mL | 0.262 mL |
| 50 mM | 0.005 mL | 0.026 mL | 0.052 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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