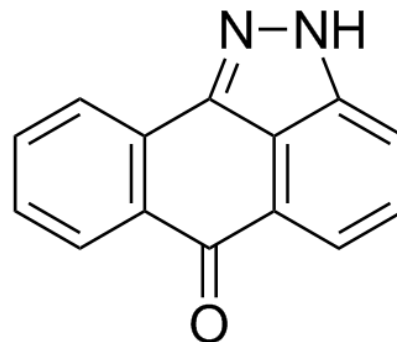


Product Name : SP600125
Cat. No. : PC-42856
CAS No. : 129-56-6
Molecular Formula : C₁₄H₈N₂O
Molecular Weight : 220.2261
Target : JNK
Solubility : DMSO: ≥ 45 mg/mL



Biological Activity

SP600125 (SP 600125) is a potent, selective, reversible, ATP-competitive inhibitor of **JNK** with IC₅₀ of 40, 40 and 90 nM for JNK1, JNK2 and JNK3, respectively.

SP600125 displays 300-fold selectivity against related MAP kinases ERK1 and p38, and PKA.

SP600125 dose dependently inhibits the phosphorylation of c-Jun, the expression of inflammatory genes COX-2, IL-2, IFN- γ , TNF- α , and prevents the activation and differentiation of primary human CD4 cell cultures.

SP600125 blocks LPS-induced expression of TNF- α and inhibits anti-CD3-induced apoptosis of CD4⁺ CD8⁺ thymocytes in vivo model of endotoxin-induced inflammation.

References

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Han Z, et al. *J Clin Invest*. 2001 Jul;108(1):73-81.

Gee K, et al. *J Immunol*. 2002 Nov 15;169(10):5660-72.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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