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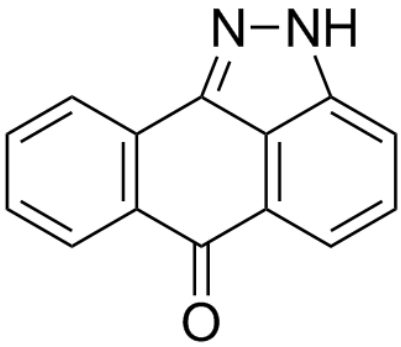
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name : SP600125
Cat. No. : PC-42856
CAS No. : 129-56-6
Molecular Formula : $C_{14}H_8N_2O$
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.
SP600125 also is a potent NAD(P)H: quinone oxidoreductase 1 (**NQO1**) inhibitor, binds to the active pocket of NQO1 and inhibits NQO1 activity, inhibits NQO1-dependent cell death.

References

Bennett BL, et al. ***Proc Natl Acad Sci U S A.*** 2001 Nov 20;98(24):13681-6.

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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