



Data Sheet

Research Use Only

Compound Name

SP600125

Catalog Number

SM41

Alternative Names

1,9-Pyrazoloanthrone, Anthrapyrazolone, JNK Inhibitor II, SAPK Inhibitor II, Anthra(1,9-cd)pyrazol-6(2H)-one

Activity

SP600125 is a potent, selective and reversible inhibitor of the three JNK enzymes (c-Jun N-terminal kinases). Inhibition is competitive with respect to ATP, and over 300-fold more selective for JNK as compared to ERK1 and p38-2 MAP kinases. SP600125 was shown to cause a dose-dependent inhibition of the phosphorylation of c-Jun, and thereby the expression of inflammatory genes COX-2, IFN- γ , IL-2 and TNF- α .

Effect

It blocks the activation and differentiation of primary human CD4 cell cultures. SP600125 has also been shown to prevent apoptosis in an array of cell types, and it inhibits autophagy in HeLa cells.

Purity

>99%

CAS

129-56-6

Formula

C₁₄H₈N₂O

Molecular Weight

220.23

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Wang, Y., et al. 2007. Life Sci. 80(22): 2067-2075. PMID: 17459422
2. Bennett, BL., et al. 2001. Proc Natl Acad Sci U S A. 98(24): 13681-13686. PMID: 11717429