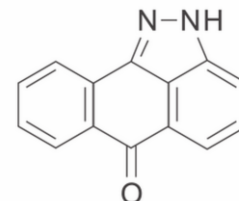


SP600125

Catalog Number: ST10025



Size	5 mg
Description	SP600125 is selective inhibitor of c-Jun N-terminal kinase (JNK). SP600125 competitively and reversibly inhibits JNK1, 2 and 3 (IC ₅₀ = 40 - 90 nM) with negligible activity at ERK2 and p38β. Shown to have reduced selectivity over other protein kinases under certain conditions. Protects renal tubular epithelial cells against ischemia and reperfusion-induced apoptosis.
Molecular Weight	220.23
Molecular Formula	C ₁₄ H ₈ N ₂ O
Chemical Name	anthra(1,9-cd)pyrazol-6(2H)-one
CAS Number	129-56-6
PubChem Identifier	8515
Appearance	Yellow solid
Purity	>99% by HPLC analysis
Solubility	Soluble in DMSO at 100 mM
Reconstitution	For a 10 mM concentrated stock solution of SP600125, reconstitute the compound by adding 2.27 mL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 40°C for 2 to 5 minutes. For use in cell culture, warm the medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 μM low-protein binding filter.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	Bennett, B.L., et al. (2001) SP600125, an anthrapyrazolone inhibitor of Jun N-terminal kinase. Proc Natl Acad Sci USA 98: 13681-13686. PMID: 11717429. Zhao, Y.F., et al. (2013) Activation of JNKs is essential for BMP9-induced osteogenic differentiation of mesenchymal stem cells. BMB Rep 46: 422-427. PMID: 23977991.

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