



SP-600125

Data Sheet

Catalog Number:	MC11087	Product Type:	Small Molecule
Bio-Activity:	JNK inhibitor	CAS #:	129-56-6
Research Categories:	Cell death, stem cells, cancer, inflammation	Chemical Name:	Anthra[1-9-cd]pyrazol-6(2H)-one
Solubility:	Soluble in DMSO (up to 22 mg/ml) or in Ethanol (up to 2 mg/ml).	Molecular Formula:	C14H8N2O
Purity:	> 98%	Molecular Weight:	220.2
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

Selective inhibitor of c-Jun N-terminal kinase (JNK). Reversibly inhibits JNK1,2 and 3 (IC50's range from 40-90 nM). >300-fold selectivity for JNK as compared to related MAP kinases [1]. Antiinflammatory activity. Inhibits expression of presenilin-1 and Notch signaling in mouse brain [2]. Cell permeable and active in vivo.

References:

- 1) Bennett et al. (2001), SP600125, an anthrapyrazolone inhibitor of Jun N-terminal kinase; Proc. Natl. Acad. Sci. USA., 98 13681
- 2) Rahman et al. (2012), Intraperitoneal injection of JNK-specific inhibitor SP600125 inhibits the expression of presenilin-1 and Notch signaling in mouse brain without induction of apoptosis; Brain Res. 1448 117

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