



**Catalog # 10-1033**

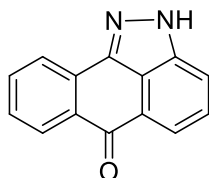
**SP-600125**

CAS# 129-56-6

Anthra[1-9-cd]pyrazol-6(2H)-one

1,9-Pyrazoloanthrone

Lot # X101375



Selective inhibitor of c-Jun N-terminal kinase (JNK). Reversibly inhibits JNK1,2 and 3 (IC<sub>50</sub>'s range from 40-90 nM). >300-fold selectivity for JNK as compared to related MAP kinases. Antiinflammatory activity. Inhibits expression of presenilin-1 and Notch signaling in mouse brain. Cell permeable and active *in vivo*.

- 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

**PHYSICAL DATA**

Molecular Weight:	220.23
Molecular Formula:	C <sub>14</sub> H <sub>8</sub> N <sub>2</sub> O
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 22 mg/ml) or ethanol (up to 2 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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