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| 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: | C ₁₄ H ₈ N ₂ O |
| 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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