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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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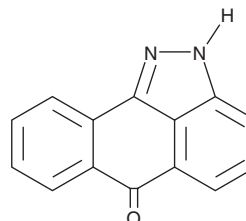
PRODUCT INFORMATION



SP 600125

Item No. 10010466

CAS Registry No.: 129-56-6
Formal Name: anthra[1,9-cd]pyrazol-6(2H)-one
Synonyms: NSC 75890, 1PMV, Pyrazolanthrone
MF: C₁₄H₈N₂O
FW: 220.2
Purity: ≥98%
UV/Vis.: λ_{max}: 230, 265, 300, 336, 399 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SP 600125 is supplied as a crystalline solid. A stock solution may be made by dissolving the SP 600125 in the solvent of choice, which should be purged with an inert gas. SP 600125 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of SP 600125 in ethanol is approximately 0.5 mg/ml and approximately 20 mg/ml in DMSO and DMF.

SP 600125 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SP 600125 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. SP 600125 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

SP 600125 is a pan-inhibitor of JNK (IC₅₀s = 0.04, 0.04, and 0.09 μM for JNK1, -2, and -3, respectively).¹ It is greater than 300-fold selective for these enzymes over a panel of 17 additional kinases at 10 μM. SP 600125 reduces LPS-induced production of IL-1β, IL-8, and TNF-α in isolated human peripheral blood monocytes, as well as decreases anti-CD3- and anti-CD28-induced production of IFN-γ, TNF-α, and IL-10 induced by in Th1-polarized Jurkat cells, in a concentration-dependent manner. It inhibits LPS-induced production of reactive oxygen species (ROS) in, and NETosis of, isolated human neutrophils when used at a concentration of 10 μM.² Intracerebroventricular administration of SP 600125 (30 μg/animal) prevents neuronal death in the CA1 region of the hippocampus in a rat model of transient global ischemia-reperfusion injury induced by four-vessel occlusion.³

References

1. Bennett, B.L., Sasaki, D.T., Murray, B.W., *et al.* SP600125, an anthrapyrazolone inhibitor of jun N-terminal kinase. *Proc. Natl. Acad. Sci. USA* **98**(24), 13681-13686 (2001).
2. Khan, M.A., Farahvash, A., Douda, D.N., *et al.* JNK activation turns on LPS- and gram-negative bacteria-induced NADPH oxidase-dependent suicidal NETosis. *Sci. Rep.* **7**(1), 3409 (2017).
3. Guan, Q.-H., Pei, D.-S., Zhang, Q.-G., *et al.* The neuroprotective action of SP600125, a new inhibitor of JNK, on transient brain ischemia/reperfusion-induced neuronal death in rat hippocampal CA1 via nuclear and non-nuclear pathways. *Brain Res.* **1035**(1), 51-59 (2005).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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