Product Information

SP 141
Item No. 17003

CAS Registry No.: 1253491-42-7
Formal Name: 6-methoxy-1-(1-naphthalenyl)-9H-pyrido[3,4-b]indole
Synonym: AGN-PC-0D106d
MF: C_{16}H_{16}N_{2}O
FW: 284.4
Purity: ≥98%
Stability: ≤2 year at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} = 221, 300, 365 nm

Laboratory Procedures
For long term storage, we suggest that SP 141 be stored as supplied at -20°C. It should be stable for at least two years.

SP 141 is supplied as a crystalline solid. A stock solution may be made by dissolving the SP 141 in the solvent of choice. SP 141 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of SP 141 in these solvents is approximately 100, 30, and 50 mg/ml, respectively.

SP 141 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SP 141 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SP 141 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description
Mouse double minute 2 protein (Mdm2) is an E3 ubiquitin-protein ligase that binds and ubiquitinates the tumor suppressor p53, leading to its degradation by the proteasome.1 SP 141 is a cell-permeable inhibitor of Mdm2 (K_{i} = 28 nM).2 Binding of Mdm2 by SP 141 promotes its auto-ubiquitination and proteasomal degradation.2,3 SP 141 induces cell cycle arrest and apoptosis in breast and pancreatic cancer cell lines and inhibits xenograft tumor growth in vivo.2,3 This compound has a short half-life in plasma and wide tissue distribution in tumor-bearing nude mice.4

References

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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