

Certificate of Analysis

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Product Name: SP 141

Catalog No.: 5332

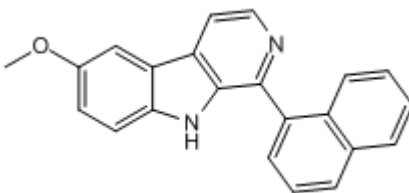
Batch No.: 1

CAS Number: 1253491-42-7

IUPAC Name: 6-Methoxy-1-(1-naphthalenyl)-9H-pyrido[3,4-b]indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₆N₂O
Batch Molecular Weight: 324.38
Physical Appearance: Light brown solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol [19:1])
HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.46	4.97	8.64
Found	81.17	5.22	8.26

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 6-Methoxy-1-(1-naphthalenyl)-9H-pyrido[3,4-*b*]indole

Description:

High affinity MDM2 inhibitor ($K_i = 28$ nM); directly binds MDM2. Inhibits MDM2 expression and induces MDM2 autoubiquitination and proteasomal degradation. Attenuates growth of breast cancer xenograft tumors. Cell permeable.

Physical and Chemical Properties:

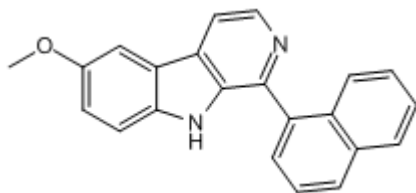
Batch Molecular Formula: C₂₂H₁₆N₂O

Batch Molecular Weight: 324.38

Physical Appearance: Light brown solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wang et al (2014) The pyrido[b]indole MDM2 inhibitor SP-141 exerts potent therapeutic effects in breast cancer models. *Nat. Commun.* **5** 5086. PMID: 25271708.

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