Certificate of Analysis

www.tocris.com

Product Name: SP 141

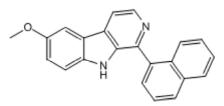
CAS Number: 1253491-42-7 IUPAC Name: 6-Methoxy-1-(1-naphthalenyl)-9H-pyrido[3,4-b]indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_{22}H_{16}N_2O$ 324.38 Light brown solid DMSO to 100 mM ethanol to 100 mM Store at +4°C





2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.4 (Dichloromethane:Methanol [19:1]) Shows 98.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

		J J -	
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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Print Date: Feb 22nd 2022

Catalog No.: 5332 Batch No.: 1

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Product Information

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Print Date: Feb 22nd 2022

Product Name: SP 141

Catalog No.: 5332

Batch No.: 1

CAS Number: 1253491-42-7 IUPAC Name: 6-Methoxy-1-(1-naphthalenyl)-9*H*-pyrido[3,4-*b*]indole

Description:

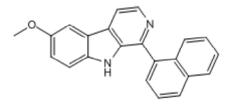
SP 141 is a high affinity MDM2 inhibitor ($K_i = 28$ nM); directly binds MDM2. SP 141 inhibits MDM2 expression and induces MDM2 autoubiquitination and proteasomal degradation. SP 141 attenuates growth of breast cancer xenograft tumors. SP 141 impairs liposarcoma growth in vitro and in human xenograft models. SP 141 is 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 $45-60^{\circ}C$ 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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