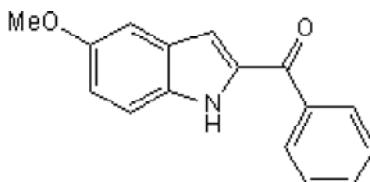


Certificate of Analysiswww.tocris.com**Product Name:** D-64131**Catalog No.:** 1643**Batch No.:** 1

CAS Number: 74588-78-6

IUPAC Name: (5-Methoxy-1*H*-indol-2-yl)phenylmethanone**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₆H₁₃NO₂**Batch Molecular Weight:** 251.28**Physical Appearance:** Yellow crystalline solid**Solubility:** ethanol to 20 mM
DMSO to 100 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.54 (Ethyl acetate:Petroleum ether [1:2])**Melting Point:** At 172°C**HPLC:** Shows 99.6% purity**¹H NMR:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 76.48 5.21 5.57

Found 76.23 5.34 5.52

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

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Product Information

www.tocris.com**Product Name:** D-64131**Catalog No.:** 1643**Batch No.:** 1

CAS Number: 74588-78-6

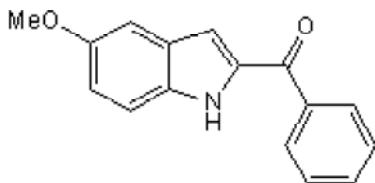
IUPAC Name: (5-Methoxy-1*H*-indol-2-yl)phenylmethanone**Description:**

Novel inhibitor of tubulin polymerization; cytotoxic and inhibits tumor cell proliferation *in vitro* ($IC_{50} = 74$ nM). Prevents growth of tumor models in mice following oral administration *in vivo*.

Physical and Chemical Properties:Batch Molecular Formula: $C_{16}H_{13}NO_2$

Batch Molecular Weight: 251.28

Physical Appearance: Yellow crystalline solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

ethanol to 20 mM

DMSO 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:

Beckers et al (2002) 2-aryliindoles, a novel class of potent, orally active small molecule tubulin inhibitors. *Cancer Res.* **62** 3113. PMID: 12036922.

Mahboobi et al (2001) Synthetic 2-aryliindole derivatives as a new class of potent tubulin-inhibitory, antimitotic agents. *J.Med.Chem.* **44** 4535. PMID: 11741473.

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