

Product Name: D-64131

Catalog No.: 1643

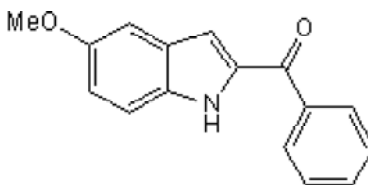
Batch No.: 1

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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Description:

Novel inhibitor of tubulin polymerization; cytotoxic and inhibits tumor cell proliferation in vitro (IC₅₀ = 74 nM). Prevents growth of tumor models in mice following oral administration in vivo.

Physical and Chemical Properties:

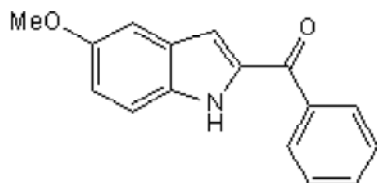
Batch Molecular Formula: C₁₆H₁₃NO₂

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-aryloindoles, a novel class of potent, orally active small molecule tubulin inhibitors. *Cancer Res.* **62** 3113. PMID: 12036922.

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

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