

Product Name: CFM 4

Catalog No.: 5144

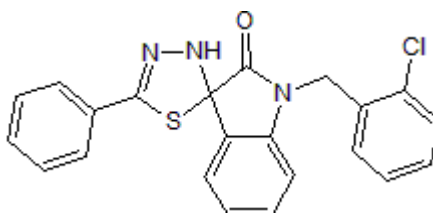
Batch No.: 1

CAS Number: 331458-02-7

IUPAC Name: 1-[(2-Chlorophenyl)methyl]-5'-phenyl-spiro[3*H*-indole-3,2'(3'*H*)-[1,3,4]thiadiazol]-2(1*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₆ClN₃OS
Batch Molecular Weight: 405.9
Physical Appearance: Beige solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	65.1	3.97	10.35
Found	65.15	4.09	10.47

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

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Description:

CARP-1 mimetic; interferes with CARP-1 binding to APC-2. Enhances CARP-1 expression and induces G₂/M cell cycle arrest. Induces apoptosis and suppresses cell growth in cancer cells.

Physical and Chemical Properties:

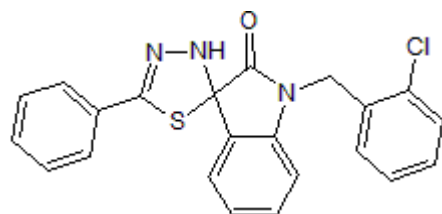
Batch Molecular Formula: C₂₂H₁₆ClN₃OS

Batch Molecular Weight: 405.9

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Puliyappadamba et al (2011) Antagonists of anaphase-promoting complex (APC)-2-cell cycle and apoptosis regulatory protein (CARP)-1 interaction are novel regulators of cell growth and apoptosis. *J.Biol.Chem.* **286** 38000. PMID: 21903591.

Ashour et al (2013) CARP-1 functional mimetics: a novel class of small molecule inhibitors of medulloblastoma cell growth. *PLoS ONE* **8** e66733. PMID: 23826121.

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