

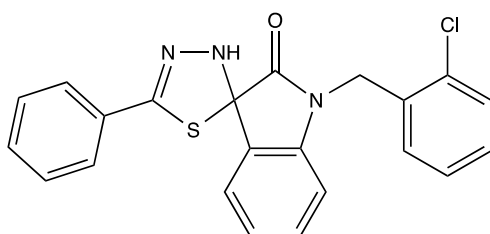
**Catalog # 10-1493**

**CFM-4**

CAS# 331458-02-7

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

Lot # X106419



CARP-1 functional mimetic. Interferes with CARP-1 binding to APC-2 ( $IC_{50}=10-15 \mu M$ )<sup>1</sup>. Enhances CARP-1 expression and induces G<sub>2</sub>/M cell cycle arrest. Induces apoptosis and suppresses growth of medulloblastoma cells<sup>2</sup> and malignant pleural mesothelioma cells<sup>3</sup>.

- 1) Puliappadamba *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
- 2) Ashour *et al.* (2013), *CARP-1 functional mimetics: a novel class of small molecule inhibitors of medulloblastoma cell growth*; PLoS ONE **8** e66733
- 3) Jamal *et al.* (2014), *CARP-1 functional mimetics are a novel class of small molecule inhibitors of malignant pleural mesothelioma cells*; PLoS ONE **9** e89146

**PHYSICAL DATA**

Molecular Weight:	405.90
Molecular Formula:	C <sub>22</sub> H <sub>16</sub> ClN <sub>3</sub> OS
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (at least 25 mg/ml)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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