SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

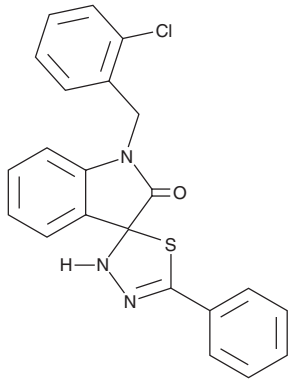
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

CFM 4

Item No. 36780



CAS Registry No.: 331458-02-7
Formal Name: 1-[(2-chlorophenyl)methyl]-5′-phenyl-spiro[3H-indole-3,2′(3′H)-[1,3,4]thiadiazol]-2(1H)-one
MF: $C_{22}H_{16}ClN_3OS$
FW: 405.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CFM 4 is supplied as a solid. A stock solution may be made by dissolving the CFM 4 in the solvent of choice, which should be purged with an inert gas. CFM 4 is soluble in the organic solvent DMSO at a concentration of approximately 25 mg/ml.

Description

CFM 4 is an inhibitor of the protein-protein interaction between anaphase-promoting complex subunit 2 (APC2) and cell cycle and apoptosis regulatory protein 1 (CARP-1).[1] It inhibits the binding of APC2 to CARP-1 (IC_{50} = 0.75 µM). CFM 4 reduces the proliferation of a variety of breast, prostate, and colon cancer cells in a concentration-dependent manner. It induces cell cycle arrest at the G_0 phase in MDA-MB-468 breast cancer cells and apoptosis in T47D breast cancer cells when used at a concentration of 20 µM. Nanostructure lipid carrier-encapsulated CFM 4 (40 mg/kg every other day) reduces tumor growth in an A549 non-small cell lung cancer (NSCLC) mouse xenograft model.[2]

References

1. Puliyappadamba, V.T., Wu, W., Bevis, D., *et al.* 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(44)**, 38000-38017 (2011).
2. Muthu, M., Somagoni, J., Cheriyan, V.T., *et al.* Identification and testing of novel CARP-1 functional mimetic compounds as inhibitors of non-small cell lung and triple negative breast cancers. *J. Biomed. Nanotechnol.* **11(9)**, 1608-1627 (2015).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM