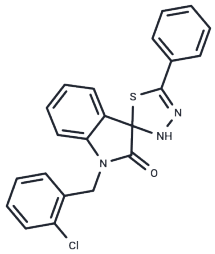
Data Sheet (Cat.No.T22646)

TargetMol

CFM 4

Chemical Properties



CAS No. : 331458-02-7

Formula: C22H16ClN3OS

Molecular Weight: 405.9

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CFM 4 is a potent small molecule CARP-1/APC-2 antagonist that prevents CARP-1 from binding to APC-2, contributes to G2M cell cycle arrest, and induces apoptosis, with an IC50 in the range of 10-15 μM.CFM 4 inhibits the growth of drug-resistant human breast cancer cells.
Targets(IC50)	Apoptosis,APC/C

Solubility Information

Solubility	DMSO: 20 mg/mL (49.27 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4637 mL	12.3183 mL	24.6366 mL
5 mM	0.4927 mL	2.4637 mL	4.9273 mL
10 mM	0.2464 mL	1.2318 mL	2.4637 mL
50 mM	0.0493 mL	0.2464 mL	0.4927 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Puliyappadamba VT, 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. 2011 Nov 4; 286(44):38000-38017.

Lee K, et al. A nuclear-encoded chloroplast protein harboring a single CRM domain plays an important role in the Arabidopsis growth and stress response. BMC Plant Biol. 2014 Apr 16;14:98.

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