

Product Name : RCM-1

Synonyms : —

Cat No. : M22465

CAS Number : 339163-65-4

Molecular Formula : C₂₀H₁₂N₂O₅S₄

Formula Weight : 424.58

Chemical Name : —

Description : RCM-1 is an inhibitor of FOXM1. RCM-1 inhibits cellular proliferation via the increasing duration of cell cycle and mitosis in human and mouse cancer cell lines in vitro. RCM-1 inhibits colony formation of cancer cells in vitro in a dose-dependent manner. RCM-1 inhibits the migration of cancer cells in vitro in a dose-dependent manner. RCM-1 inhibits the initiation as well as the growth of cancer cell colonies in vitro. Treatment with RCM-1 increases the duration of mitosis and cell cycle in the cancer cell lines. RCM-1 decreases the B 16-F10 tumor growth as compared to the Vehicle -treated group. RCM-1 treatment decreases tumor cell proliferation and increased apoptosis in B16-F10 melanoma tumors. RCM-1 treatment reduces the growth of the human H2122 lung adenocarcinoma in mice. RCM-1 treatment reduces tumor cell proliferation and increases apoptosis in Rd76-9 rhabdomyosarcoma tumors. RCM-1 treatment decreases the growth of Rd76-9 rhabdomyosarcomas in mice. The RCM-1-treated Rd76-9 tumors display reduced FOXM1 staining and decreased expression of proliferation-specific markers Ki67 and PH3. Cleaved caspase staining is increased in the RCM-1 treated tumors, indicating an increase in apoptosis. RCM-1 treatment reduces the growth of B16-F10 melanoma tumors in mice.

Pathway : Others

Target : Other Targets

Receptor : FOXM1

Solubility : DMSO:16.67 mg/mL (39.26 mM; Need ultrasonic)

SMILES : O=C(CSc1nc(cc(-c2cccs2)c1C#N)-c1cccs1)c1cccs1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. ARYL SULFONOHYDRAZIDES.WO2018057550A1.