For Research Use Only

ANI-7

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Catalog Number: CM13103

产品信息

Catalog Number:
CM13103

CAS号:
931417-26-4

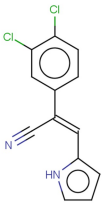
分子式:
$C_{13}H_8Cl_2N_2$

主要靶点:
Chk

主要通路:
细胞周期

分子量:
263.12

溶解度:
DMSO:18.7 mg/mL (71.3 mM),Sonification is recommended.



体外活性

ANI-7 (2.5 μM; 24 hours; MCF10A and MDA-MB-468 cells) treatment induces significant S-phase and G2 + M-phase cell cycle arrest within 24 hours of treatment in MDA-MB-468 cells. ANI-7 (2 μM; 12-24 hours; MDA-MB-468 cells) treatment results in a significant increase in the content and phosphorylation of CHK2, and induces a significant increase in H2AX in MDA-MB-468 cells, indicative of DNA double-strand damage. Comparisons of the GI50 values show that ANI-7 produces a GI50 value of 0.38 μM in MCF-7 cells, whereas values of 3.0-42 μM are observed in cell lines from lung, colon, ovary, neuronal, glial, prostate, and pancreas. The only other tumor type that shows appreciable growth inhibition by ANI-7 is the A431 vulva cell line (GI50 of 0.51 μM). ANI-7 potently inhibits the growth of T47D, ZR-75-1, MCF-7, SKBR3, and MDA-MB-468 breast cancer cells (GI50 range of 0.16-0.38 μM), moderately inhibits the growth of BT20 and BT474 cells (GI50 range of 1-2 μM), and essentially fails to inhibit the growth of MDA-MB-231 and MCF10A cells (GI50 range of 17-26 μM). Moreover, ANI-7 maintained its ability to inhibit the growth of drug-resistant cells (MCF-7/VP16: GI50 of 0.21 μM) [1].

描述

ANI-7 is an activator of aryl hydrocarbon receptor (AhR) pathway. ANI-7 inhibits the growth of multiple cancer cells and potently and selectively inhibits the growth of MCF-7 breast cancer cells (GI50: 0.56 μM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years