

Catalog Number: CM03400

产品信息

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CM03400

CAS号:
212844-53-6

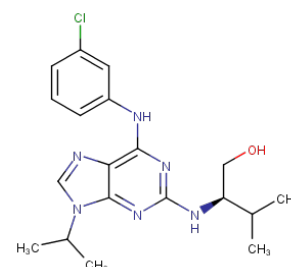
分子式:
C₁₉H₂₅ClN₆O

主要靶点:
CDK|Apoptosis|Autophagy

主要通路:
凋亡|细胞周期|自噬

分子量:
388.89

溶解度:
Ethanol:19.5 mg/mL (50 mM);DMSO:<1 mg/mL (insoluble or slightly soluble)



靶点活性

CDK2-CyclinE:35 nM|CDK4-CyclinD1:850 nM|CDK2-CyclinA:70 nM|CDC2-cyclinB:4 nM

体内活性

在MCF-7细胞中,Purvalanol A使细胞活性损失50%,但MDA-MB-231细胞对Purvalanol A的敏感性相对较低(细胞活性减少32%)。在MCF-7和MDA-MB-231细胞中,Purvalanol A可促使线粒体介导的细胞凋亡。Purvalanol A可使MCF-7和MDA-MB-231细胞系的细胞活性降低,该作用具有剂量依赖性。通过抑制细胞周期进程和c-Src信号通路,Purvalanol A可有效防止c-Src介导转化,且对一些c-Src上调的人类癌细胞贴壁不依赖性生长有明显的抑制效果。Purvalanol A可显著抑制HT29和SW480人结肠癌细胞的贴壁依赖性生长。

细胞实验

Cells are seeded at 10000 density in 96-well plates and treated with various concentrations of Purvalanol A (0-100 μM) for 24 h. Cells are exposed to 10 μL of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide dye (5 mg/mL) and are incubated at 37°C for 4 h. In order to solubilize the formazan crystals 100 μL DMSO is added. Absorbance is determined at 570 nm spectrophotometrically.(Only for Reference)

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.