Web: www.taiclone.com
Tel: +886-2-2735-9682
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HLM006474

Catalog No: tcsc3180

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
353519-63-8

Formula:
$C_{25}H_{25}N_3O_2$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 19.4 mg/mL (48.56 mM)

Observed Molecular Weight:
399.48

Product Description

HLM006474 is a pan **E2F** inhibitor, which inhibits E2F4 DNA-binding with an $\mathbf{IC_{50}}$ of 29.8 μM in A375 cells.

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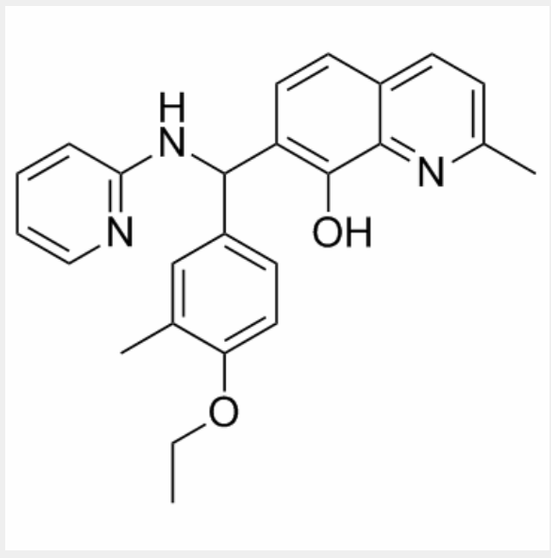
IC50 & Target: IC50: 29.8 μM (E2F4 DNA-binding)[1]

In Vitro: HLM006474 shows little activities against E2F4 DNA-binding in A375 cells at 10 and 20 μM, apparently inhibits E2F4 DNA-binding at 40 μM, and increasingly suppressses the effect at 60 and 80 μM concentrations. HLM006474 (40 μM) inhibits E2F4 activity via suppression of its DNA-binding activity and down regulation of its expression. HLM006474 (40 μM) also significantly induces apoptosis in A375 and 231 cell lines for 24 hours. HLM006474 dramaticly reduces cyclin D3 protein expression, and is a potent inducer of PARP cleavage[1]. HLM006474 reduces the viability of both SCLC and NSCLC lines with IC_{50} ranging from 15 to 75 μM. HLM006474 (60 μM) increases the expression of several known E2F-regulated genes after short treatments in H292 and H1299 cell lines. HLM006474 (20 μM) weakly synergizes with paclitaxel, but there is antagonism between HLM006474 and cisplatin and gemcitabine in H1299 cells[2]. HLM006474 leads to a decrease in the mRNA levels of MAD2. Furthmore, HLM006474 apparently suppresses the increase of Mad2 protein and pRb-S780 signal but not the level of Skp2 protein in human lung cancer A549 cellss[3].



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