

## Catalog Number: CM09772

产品信息	Catalog Number: CM09772	分子量: 397.47	
	CAS号: 552325-16-3	溶解度: DMSO:100 m = /m L (251 50 m M)	CH3
	分子式: C <sub>24</sub> H <sub>23</sub> N <sub>5</sub> O	DM30:100 mg/mL (251.59 mM)	HU IH2
	主要靶点: FLT GSK-3 Casein Kinase Akt CDK PKC Chk Src MAPK VEGFR S6 Kinase PKA ERK		
	<b>主要通路:</b> 表观遗传细胞骨架 MAPK信号通 路 代谢 蛋白酪氨酸激酶 细胞周 期 P13K/Akt/mTOR信号通路 血管 生成 干细胞		
靶点活性	РКА:6.3 nM (ki) KDR:3.1 µ M (ki) MAPK-AP2:; (ki) Cht1:2.3 µ M (ki) cKIT:1.2 µ M (ki) ERK2 (ki) Src:2.6 µ M (ki) CDK2:24 nM (ki)	5.3 μ M (ki) Akt3:160 pM (ki) PKC δ :33 nM ( :340 nM (ki) Akt1:160 pM (ki) GSK3 β :41 nl	(ki) PKC γ :24 nM (ki) CK2:2.4 μ M M (ki) Akt2:160 pM (ki) RSK2:11 nM
体外活性	A-443654 exhibits a Ki of 160 pM which is a reduces the P-GSK3 in a dose-responsive mainhibits Akt1, Akt2, or Akt3 equally within ci in both 10A and 10CA1a cells, with 10CA1a proliferation of tumor cells with EC50 of 0.1 compared to the WT cells with greater than 3 rapamycin and A-443654 effects on DNA cor levels by 30 to 40% in the 10CA1a cells at 8 decreases Bcl-2 protein levels by appr 40 to alone at 2 $\mu$ M causes the 10CA1a cells, but causes 10CA1a cells to detach from the plate	30,000-fold improvement in potency versu nner in all three cell lines. A-443654 is 40- ells. A-443654-induced morphological char cells more sensitive to A-443654 than the i $\mu$ M[1]. A-443654 demonstrates the greate 5.5 fold relative growth inhibition of the mu itent in 10A and 10CA1a cells. In contrast, A h. The combination of rapamycin with 2 or 50% in the 10A cells and by appr 70% in th not the 10A cells, to detach from the plate a e after 12 h [2].	is the initial lead molecule. A-443654 fold selective for Akt over PKA, and it nges occur very rapidly (within 2 to 4 h) 10A cells. A-443654 inhibits the st selective effect on the mutant cells utant cells[3]. FACScan Analysis of $-443654$ at 2 and 5 $\mu$ M decreases Bcl-2 5 $\mu$ M A-443654, however, markedly ne 10CA1a cells, respectively. A-443654 after 12 h, whereas 1 $\mu$ M of A-443654
体内活性	A-443654 (7.5 mg/kg/d, s.c.) inhibits tumor g increased levels of phosphorylated Akt1 in f tumors [1].	growth in the 3T3-Akt1 flank tumor model. MaPaCa-2 tumors. A-443654 (50 mg/kg, s.o	A-443654 (30 mg/kg, s.c.) caused c.) induces apoptosis in 3T3-Akt1 flank
描述	A-443654 is a pan-Akt inhibitor. A-443654 h	as equal potency against Akt1, Akt2, or Akt	t3 within cells (Ki=160 pM).
储存	Powder: - 20°C for 3 years   In solvent: -	80°C for 1 year	