## For Research Use Only Sotrastaurin



## Catalog Number: CM06023

产品信息	Catalog Number: CM06023 CAS号: 425637-18-9 分子式: C <sub>25</sub> H <sub>22</sub> N <sub>6</sub> O <sub>2</sub> 主要靶点: PKC 主要通路: 细胞骨架 表观遗传	分子量: 438.48 溶解度: DMSO:81 mg/mL (184.7 mM);Ethanol:2 mg/mL (4.56 mM)	
靶点活性	PKC $\beta$ 1:0.64 nM(Ki, cell free) PKC $\epsilon$ :3.2 nM(k nM(Ki, cell free) PKC $\theta$ :0.22 nM(Ki, cell free)	Ki, cell free) PKC η :1.8 nM(Ki, cell free) PKC	$\alpha$ :0.95 nM(Ki, cell free)]PKC $\delta$ :2.1
体外活性	在无细胞激酶测定中,Sotrastaurin (AEB071 显著抑制了原位PKC的催化活性。在原代人类 在GNAQ/GNA11突变细胞中,与野生型细胞; myristoylated alanine-rich C-kinase substra [2]。	)抑制了PKC,其K(i)值在亚纳摩尔至低纳摩 及小鼠T细胞中,低纳摩尔浓度的AEBO71处 相比,AEBO71观察到生长抑制作用。在GNA te(PKC的一个底物)、ERK1/2和核糖体S6	尔范围内。当T细胞受到刺激时,AEB071 2理有效阻断了早期T细胞激活标志[1]。 AQ突变细胞中,AEB071降低了 的磷酸化,但AKT激活仍然持续存在
体内活性	每日口服Sotrastaurin(80 mg/kg, tid)的复制效果,相应地,与对照组相比,治疗组的肿减少方面显著更有效。与对照组(vehicle co	b理相较于对照组(vehicle-treated animals 中瘤体积变化率为17%[2]。与单独使用AEBo ntrol)相比,这种效果甚至更加显著[3]。	5)显示出了统计学意义上的肿瘤生长抑 071或BYL719相比,联合疗法在肿瘤体积
动物实验	6–8 week nu/nu SCID female mice bea diameter were treated with vehicle, A agents and in combination, 5 days/wee sacrificed and tumors were collected female mice bearing subcutaneously is treated with vehicle, AEB071 (80mg/kg combination, 5 days/week for 3 weeks manufacturer's instructions. Tumors w transferase dUTP nick end labeling (TL and tumor volumes were calculated by Toxicity was monitored by weight loss	ring subcutaneously injected 92.1 tu EBO71 (80mg/kg/d) TID and or BYL719 ek for 2 weeks. After 2 weeks, two ani to analyze for Western blot. For Omm njected Omm1 tumors (7 mice/group g/d) TID and or BYL719 orally (50mg/k Tumors were homogenized with gri vere collected to analyze for H&E and INEL) staining. Tumors were measure y the formula 4/3 × r3 [r = (larger diam [3].	mors (7 mice/group) of 100mm3 o rally (50mg/kg/d) QD as single mals from each group were 1 xenografts, 6–8 weeks athymic o) of 100 mm3 diameter were g/d) QD as single agents and in nding resins kits as per terminal deoxynucleotidyl d every 2 to 3 days with calipers, neter + smaller diameter)/4.
细胞实验	Jurkat cells (5×10 <sup>6</sup> cells) were pretre dark with 5 µ M fura-2 acetoxymethyl solution. Samples were prewarmed to Fluorolog 2 spectrofluorometer equip point, anti-CD3 antibody was added to min. The maximal and minimal Ca2 leve Experiments were performed at least	eated for 4 h with 500 nM AEB071 and ester. Dye excess was removed by wa 37°C and baseline Ca2+ levels were of pped with two excitation monochrom a final concentration of 10 $\mu$ g/ml, ar els were determined by adding an exc four times with similar outcomes [1].	loaded for 30 min at 37°C in the ishing in Hanks' balanced salt determined for 100 s on a Spex eters and a Cooper system. At this id data were collected over 6.5 cess of ionomycin and EGTA.
储存	Powder: -20°C for 3 years   In solvent: -	80°C for 1 year   Shipping with blue i	ce.