

Catalog Number: CM06016

产品信息	Catalog Number: 分子量: CM06016 515.6 CAS号: 溶解度: 170364-57-5 DMS0:10.3 mg/mL (20 mM) 分子式: Catalog Number: C32H29N502 主要靶点:
	Apoptosis PKC Autophagy 主要通路: 凋亡 表观遗传 细胞骨架 自噬
靶点活性	ΡΚC β :6 nM
体外活性	Enzastaurin 在所有研究的MM细胞系中,包括MM.15、MM.1R、RPMI 8226 (RPMI)、RPMI-Dox40 (Dox40)、NCI-H929、KMS- 11、OPM-2和U266,均显示出显著的剂量依赖性生长抑制作用,IC50范围为0.6-1.6 μM。Enzastaurin 直接作用于人类肿瘤细 胞,诱导周亡并抑制培养肿瘤细胞的增强。Enzastaurin 还抑制了GSK3 β ser9、核糖体蛋白S65240/244和AKTThr308的磷酸化, 但对VEGFR磷酸化无直接影响。[1] Enzastaurin 提高了CTCL恶性淋巴细胞的凋亡率。与GSK3抑制剂联合使用时,enzastaurin 显 示出提高的细胞毒性水平。使用enzastaurin与GSK3抑制剂AR-A014418的组合处理,增加了β-catenin总蛋白水平和β-catenin 介导的转录。阻断β-catenin介导的转录或小发夹RNA (shRNA)敲减β-catenin产生了与enzastaurin加AR-A014418相同的细胞毒 作用。此外,enzastaurin和AR-A014418的治疗降低了CD44的mRNA水平和表面表达。[2]
体内活性	将异种移植瘤用Enzastaurin和放射线联合处理,比单独使用任一治疗能更大幅度降低微血管密度。微血管密度的减少与肿瘤生长 延迟相对应。[3]
细胞实验	Induction of apoptosis by enzastaurin is measured by nucleosomal fragmentation and terminal deoxynucleotidyl transferase-mediated nick-end labeling (TUNEL) and staining in HCT116 and U87 mg cell lines. Briefly, 5 & times; 103 cells are plated per well in 96-well plates (1% FBS-supplemented media conditions), incubated with or without Enzastaurin for 48 to 72 hours. The absorbance values are normalized to those from control-treated cells to derive a nucleosomal enrichment factor at all concentrations as per the manufacturer's protocol. The concentrations studied ranges from 0.1 to 10 & mu; M. In situ TUNEL staining is assayed with the In situ Cell Death Detection, Fluorescein kit. Cells (7.5 × 104) are plated per well in 6-well plates and incubated 72 hours in 1% FBS-supplemented media Enzastaurin. Fluorescein-labeled DNA strand breaks are detected with the BD epics flow cytometer. Ten thousand, single-cell, FITC-staining events are collected for each test. (Only for Reference)
储存	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year Shipping with blue ice.