For Research Use Only

Z-DEVD-FMK

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Catalog Number: CM01198

产品信息

Catalog Number:
CM01198

CAS号:
210344-95-9

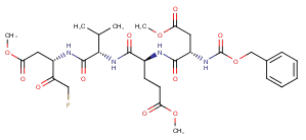
分子式:
$C_{30}H_{41}FN_4O_{12}$

主要靶点:
Caspase

主要通路:
凋亡|蛋白酶体

分子量:
668.66

溶解度:
Ethanol:< 1 mg/mL (insoluble or slightly soluble);H2O:< 1 mg/mL (insoluble or slightly soluble);DMSO:50 mg/mL (74.78 mM)



靶点活性

Caspase-3:18 μM.

体外活性

方法：v-K-ras转化的正常大鼠肾脏细胞 KNRK 用 SCH56582 (20？μM) 和 Z-DEVD-FMK (20-50？μM) 处理 24 h，使用 trypan blue 检测细胞死亡。 **结果：**添加 50 μM Z-DEVD-fmk 导致细胞凋亡抑制 >70%。[1] **方法：**人多发性骨髓瘤细胞 KM3 用 betulinic acid (15？μg/mL) 和 Z-DEVD-FMK (50 ?mol/L) 处理 24 h，使用 Western Blot 检测靶点蛋白表达水平。 **结果：**Z-DEVD-VMK 减轻了 betulinic acid 诱导的 caspase 3 的激活。Z-DEVD-FMK 显著阻断 PARP 的切割。[2]

体内活性

方法：为测试体内活性，将 Z-DEVD-FMK (1.8 mg/kg in ethanol and freshly diluted in PBS containing 2% Tween-80) 腹腔注射给 C57BL/6 小鼠，30 min 后注射 CPT-11 (350 mg/kg)。Z-DEVD-FMK 继续给药三天，每天一次。 **结果：**Caspase-3 抑制剂 Z-DEVD-FMK 减弱 PT-11 诱导的 GATA6 缺失小鼠腹腔巨噬细胞。[3]

细胞实验

N27 cells are incubated with 100 μM 6-OHDA for 24 h or 300 μM MPP+ for 36 h in the presence or absence of 50 μM Z-DEVD-FMK and cell death is determined by MTT (3-(4,5-dimethylthiazol-3-yl)-2,5-diphenyl tetrazolium bromide) assay, which is widely used to assess cell viability. After treatment, the cells are incubated in serum-free medium containing 0.25 mg/ml MTT for 3 h at 37°C. Formation of formazan from tetrazolium is measured at 570 nm with a reference wavelength at 630 nm using a SpectraMax microplate reader.(Only for Reference)

储存

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