

Catalog Number: CM05125

产品信息

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CM05125

CAS号:
152044-53-6

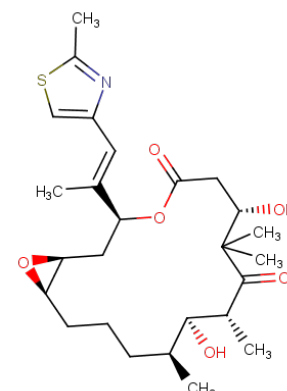
分子式:
C₂₆H₃₉NO₆S

主要靶点:
Apoptosis|Microtubule
Associated

主要通路:
细胞骨架|凋亡

分子量:
493.66

溶解度:
DMSO:92 mg/mL (186.4
mM); H₂O:< 1 mg/mL (insoluble
or slightly soluble); Ethanol:92
mg/mL (186.4 mM)



靶点活性

Tubulin:2 μM(EC0.01)

体内活性

Epothilone A诱导微管蛋白聚合, 导致细胞周期在G2-M期停滞, 具有细胞毒性, 也诱导细胞凋亡。Epothilone A有效抑制HCT116细胞增殖, IC₅₀为4.4 nM。Epothilone A对KB3-1, KBV-1, HeLa和Hs578T细胞具有细胞毒性, IC₅₀为13 nM到160 nM。Epothilone A与紫杉醇竞争性与微管结合, IC₅₀为2.3 μM。

细胞实验

Cell lines: KB3-1, KBV-1, HeLa, and Hs578T cells. Concentrations: 0–2 μM. Method: cells are plated either in 48-well plates (for trypan blue and cell counting) or onto coverslips. After 24 hours, cells are treated with Epothilone A and are scored at regular intervals. For the cytotoxicity analysis, cells are counted and scored as trypan blue positive or negative.

储存

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