For Research Use Only

Hemin

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Catalog Number: CM00291

产品信息

Catalog Number:
CM00291

CAS号:
16009-13-5

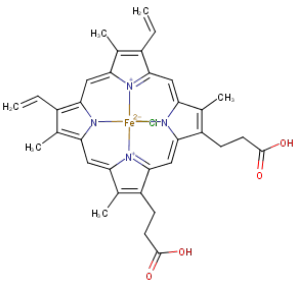
分子式:
$C_{34}H_{32}ClFeN_4O_4$

主要靶点:
Mitophagy|Autophagy|Ferroptosis

主要通路:
凋亡|自噬|自噬

分子量:
651.94

溶解度:
DMSO:< 1 mg/mL;



体外活性

方法：胰腺癌细胞 PA-TU-8902、BxPC-3 和 MiaPaCa-2 用 Hemin (30 μM) 处理 48 h，使用 CellTiter-Glo Luminescent Cell Viability Assay 检测细胞活力。**结果：**Hemin 对 PA-TU-8902、BxPC-3 和 MiaPaCa-2 细胞系的细胞增殖有显著影响，使细胞增殖分别降至 62±5%、51±3% 和 38±8%。[1] **方法：**星形胶质细胞培养物用 Hemin (25 μM) 处理 12-24 h，使用 colorimetric method 检测铁含量。**结果：**在与 Hemin 孵育后，培养的星形胶质细胞发生了铁积累。[2]

体内活性

方法：为研究对肾损伤的作用，将 Hemin (100 μmol/kg) 腹腔注射给肾缺血再灌注的 BABL/c 小鼠。**结果：**Hemin 预处理促进 ERK1/2 磷酸化并增强肾小管恢复，从而防止进一步的肾损伤。[3] **方法：**为研究对胰岛素抵抗的作用，将 Hemin (50 μmol/kg) 腹腔注射给高脂饮食的 C57BL/6 小鼠，每天一次，持续四周。**结果：**Hemin 通过增加骨骼肌的胰岛素敏感性来防止高脂肪饮食诱导的胰岛素抵抗的发展。[4]

细胞实验

In vitro effects of various statins and hemin, a heme oxygenase inducer, on cell proliferation were evaluated in PA-TU-8902, MiaPaCa-2 and BxPC-3 human pancreatic cancer cell lines. The effect of statins on heme oxygenase activity was assessed and heme oxygenase-silenced cells were used for pancreatic cancer cell proliferation studies. Cell death rate and reactive oxygen species production were measured in PA-TU-8902 cells, followed by evaluation of the effect of cerivastatin on GFP-K-Ras trafficking and expression of markers of invasiveness, osteopontin (SPP1) and SOX2[1].

储存

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