

Catalog Number: CM00664

## 产品信息

Catalog Number:  
CM00664

CAS号:  
14003-96-4

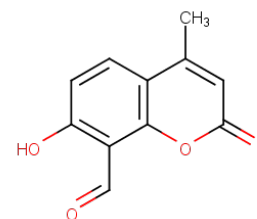
分子式:  
C<sub>11</sub>H<sub>8</sub>O<sub>4</sub>

主要靶点:  
IRE1

主要通路:  
细胞周期

分子量:  
204.18

溶解度:  
DMSO:16.67 mg/mL (81.63 mM)



## 靶点活性

IRE1 Rnase:76 nM

## 体外活性

4 μ 8C通过阻断其底物(RIDD)进入IRE1的活性部位，从而有选择性地失活Xbp1的剪接和IRE1介导的mRNA降解，进而诱导ER应激，但未观察到可测量的急性毒性。[1] 作为IRE1抑制剂，4 μ 8C同时阻止了来自CD4+ T细胞的IL-4、IL-5和IL-13的产生。[2]

## 体内活性

4 μ 8C可逆转ER应激依赖的多个已知RIDD靶标的丧失，其半最大有效浓度（EC50）约为4 μ M，与XBP1靶基因激活的抑制作用相近[1]。

## 细胞实验

Cells are seeded in phenol red-free cell culture medium in 96 or 24 well dishes at a density of 5 × 10<sup>3</sup> or 5 × 10<sup>4</sup> cells per well, respectively. Cultures are incubated for 16 h before treatment with 4 μ 8C for 24 h. Cultures are then analyzed by the addition of 200 μ M WST1 and 10 μ M phenazine methosulfate. After development of the reagent for 2 h at 37 °C, the hydrolyzed dye is detected by absorbance at 450 nm, after subtracting background and absorbance at 595 nm. Alternatively, cell viability is determined by staining of the adherent culture with crystal violet. Quantitation of the dye uptake is analyzed by extensive washing of the stained cells with water and solubilization of the crystal violet in methanol followed by absorbance measurements at 595 nm. (Only for Reference)

## 储存

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