

Catalog Number: CM04468

## 产品信息

**Catalog Number:**  
CM04468

**CAS号:**  
927822-86-4

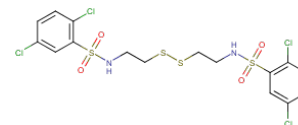
**分子式:**  
 $C_{16}H_{16}Cl_4N_2O_4S_4$

**主要靶点:**  
HIF/HIF/HIF Prolyl-Hydroxylase

**主要通路:**  
表观遗传|血管生成|代谢

**分子量:**  
570.38

**溶解度:**  
DMSO:57 mg/mL (100 mM)



## 靶点活性

HIF-1  $\alpha$  :20  $\mu$  M

## 体外活性

KC7F2 inhibits HRE-driven transcription and decreases HIF-1  $\alpha$  protein levels in LN229-HRE-AP cells. KC7F2 shows a dose-response cytotoxicity with IC50 of approximately 15 to 25  $\mu$  M in cancer cells MCF7, LN2308, A549, U251 mg, and LN229. In D54 mg glioma cells, KC7F2 inhibits colony formation, especially under hypoxia. [1] In hypoxic microglial cultures, KC7F2 downregulates the expression of Tfr and DMT, and reduces the HIF-1  $\alpha$  mediated iron accumulation. [2]

## 体内活性

KC7F2 significantly reduces the latent period in the pentylenetetrazole kindling rat model and increases the rate of spontaneous recurrent seizures during the chronic stage in the lithium-pilocarpine rat model. [3]

## 细胞实验

Cells are seeded onto 96-well plates (4 × 103/well) and cultured under normoxic (21% O2) and hypoxic (1% O2) conditions with different concentrations of KC7F2 for 72 h or treated for various times with 20  $\mu$  M KC7F2. For proliferation analysis, cells are fixed with 50% trichloroacetic acid for 1 h at 4°C, followed by staining with 0.4% sulforhodamine B dissolved in 1% acetic acid for 30 min at room temperature. Plates are washed five times with 1% acetic acid to remove unbound dye. Bound dye is dissolved by adding 10 mM unbuffered Tris base. Cell proliferation is calculated by measuring OD values at 564 nm using a spectrophotometer.(Only for Reference)

## 描述

KC7F2 is a potent HIF-1 pathway inhibitor with potential anti-cancer activity.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years