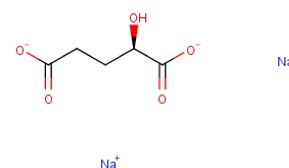


Catalog Number: CM00197

## 产品信息

Catalog Number:  
CM00197CAS号:  
103404-90-6分子式:  
 $C_5H_6Na_2O_5$ 主要靶点:  
mTOR|ATPase|Endogenous  
Metabolite|Reactive Oxygen  
Species|Others主要通路:  
NF- $\kappa$ B信号通路|免疫与炎症|离子  
通道|PI3K/Akt/mTOR信号通路|代  
谢|其他分子量:  
192.08溶解度:  
DMSO:2.5 mM

## 靶点活性

 $\alpha$ -ketoglutarate-dependent dioxygenases:0.628 mM(Ki)

## 体外活性

In U-87 mg cells, (R)-2-Hydroxyglutarate acts as weak antagonists of  $\alpha$ -KG to inhibit  $\alpha$ -KG-dependent histone demethylases and increases dimethylation on both H3K9 and H3K79. [1] Besides, (R)-2-Hydroxyglutarate inhibits ATP synthase and mTOR signaling, and thus causes growth arrest and tumor cell killing. [2]

## 细胞实验

Cells are seeded in 12-well plates and, after overnight incubation, treated with the indicated concentrations of each compound. After harvesting, cells are stained with acridine orange (AO) and 4',6-diamidino-2-phenylindole (DAPI). Cell number and viability are measured based on AO and DAPI fluorescence as measured by NC3000 following the manufacturer's instructions.(Only for Reference)

## 描述

D- $\alpha$ -Hydroxyglutaric acid disodium (Disodium (R)-2-Hydroxyglutarate) is a competitive inhibitor of  $\alpha$ -ketoglutarate-dependent dioxygenases with Ki of 0.628 mM.

## 储存

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