

Catalog Number: CM05380

## 产品信息

**Catalog Number:**  
CM05380

**CAS号:**  
37308-75-1

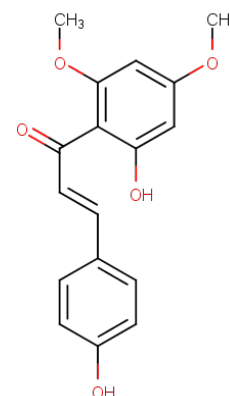
**分子式:**  
C<sub>17</sub>H<sub>16</sub>O<sub>5</sub>

**主要靶点:**  
Apoptosis

**主要通路:**  
凋亡

**分子量:**  
300.31

**溶解度:**  
DMSO:25 mg/mL (83.25 mM)



## 体外活性

Flavokawain C (FKC) markedly decreased the cell viability of HT-29 cells and the cells showed dramatic changes in cellular and nuclear morphologies with typical apoptotic features. The induction of apoptosis correlated well with the externalization of phosphatidylserine, DNA fragmentation, decreased mitochondrial membrane potential, activation of caspases, and PARP cleavage. This was associated with an increase in reactive oxygen species and a decrease in SOD activity. The protein levels of XIAP, c-IAP1, and c-IAP2 were downregulated, whereas the GADD153 was upregulated after FKC treatment. FKC induced cell cycle arrest at the G1 and G2/M phases via upregulation of p21 and p27 in a p53-independent manner. FKC has the potential to be developed into chemotherapeutic drug for the treatment of colon adenocarcinoma[1].

## 细胞实验

Cell viability of HT-29 cells was assessed by Sulforhodamine B assay after FKC treatment. Induction of apoptosis was examined by established morphological and biochemical assays. ROS generation was determined by dichlorofluorescein fluorescence staining, and superoxide dismutase activity was measured using the spectrophotometric method. Western blotting was used to examine the changes in the protein levels[1].

## 描述

Flavokawain C (FKC), a naturally occurring chalcone, which can be isolated from Kava. FKC has the potential to be developed into chemotherapeutic drug for the treatment of colon adenocarcinoma.

## 储存

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