

Catalog Number: CM16398

## 产品信息

**Catalog Number:**  
CM16398

**CAS号:**  
8015-61-0

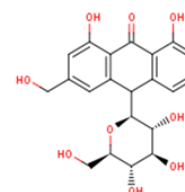
**分子式:**

**主要靶点:**  
MMP|Antibacterial|Antifungal|IL Receptor

**主要通路:**  
免疫与炎症|蛋白酶体|微生物学

**溶解度:**

DMSO:50 mg/mL (119.51 mM)



## 体外活性

Clostridium histolyticum collagenase (ChC) results dose-dependently inhibited by aloe gel and the activity-guided fractionation led to an active fraction enriched in phenolics and aloins. Aloins have been shown to be able to bind and to inhibit ChC reversibly and non-competitively. Aloe gel and aloins are also effective inhibitors of stimulated granulocyte matrix metalloproteinases (MMPs)[1].

## 体内活性

Aloin effectively inhibits salivary IL-1 $\beta$ -induced IL-8 production by mitigating the p38 and ERK pathway. Therefore, aloin may be a good candidate for modulating oral inflammatory diseases[2].

## 动物实验

Saliva was collected from volunteers to determine IL-1 $\beta$  and IL-8 levels. Samples from volunteers were divided into two groups: those with low and those with high IL-1 $\beta$  levels. KB cells were stimulated with IL-1 $\beta$  or saliva with or without IL-1 receptor agonist or specific mitogen-activated protein kinase (MAPK) inhibitors. IL-8 production was measured by enzyme-linked immunosorbent assay (ELISA). MAPK protein expression involved in IL-1 $\beta$ -induced IL-8 secretion was detected by Western blot. KB cells were pretreated with aloin, and its effect on IL-1 $\beta$ -induced IL-8 production was examined by ELISA and Western blot analysis[1].

## 描述

ALOIN Inhibits Interleukin (IL)-1 $\beta$ -Stimulated IL-8 Production in KB Cells.

## 储存

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