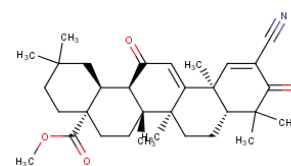


Catalog Number: CM04717

## 产品信息

Catalog Number:  
CM04717CAS号:  
218600-53-4分子式:  
 $C_{32}H_{43}NO_4$ 主要靶点:  
Nrf2|Autophagy| $\kappa$  B|IKK|Apoptosis|Ferroptosis主要通路:  
凋亡|NF- $\kappa$  B信号通路|免疫与炎症|  
自噬分子量:  
505.69溶解度:  
H<sub>2</sub>O:<1 mg/mL,DMSO:20 mg/mL  
(39.5 mM),Ethanol:<1 mg/mL

## 体外活性

Bardoxolone Methyl exhibits potent inhibitory activities against production of nitric oxide induced by interferon- $\gamma$  in mouse macrophages with IC<sub>50</sub> of 0.1 nM. [1] Bardoxolone Methyl decreases the viability of leukemic HL-60, KG-1, and NB4 cells with IC<sub>50</sub> of 0.4, 0.4, and 0.27  $\mu$ M, respectively. CDDO-Me induces pro-apoptotic Bax protein, inhibits the activation of ERK1/2, and it blocks Bcl-2 phosphorylation, which contributes to the induction of apoptosis. [2] Bardoxolone Methyl potently inhibits both constitutive and inducible NF- $\kappa$ B activated by TNF, interleukin (IL)-1 $\beta$ , phorbol ester, okadaic acid, hydrogen peroxide, lipopolysaccharide, and cigarette smoke. [3]

## 体内活性

Bardoxolone Methyl (60 mg/kg) reduces the number, size, and severity of lung tumors in vivo. [4] Bardoxolone Methyl significantly reduces the in vivo inflammatory cytokine response following LPS challenge, induces HO-1 protein expression in the spleen, and protects mice against lethal-dose LPS. [5]

## 细胞实验

Leukemic cell lines are cultured at a density of 3.0 $\times$ 10<sup>5</sup> cells/mL, and AML mononuclear cells are cultured at 5 $\times$ 10<sup>5</sup> cells/mL in the presence or absence of indicated concentrations of CDDO-Me. Appropriate amounts of DMSO (final concentration less than 0.05%) are included as control. For cytotoxicity studies, 1  $\mu$ M Ara-C is added to the cultures. After 24 to 72 hours, viable cells are counted with the trypan blue dye exclusion method using a hemacytometer. (Only for Reference)

## 描述

Bardoxolone Methyl (TP-155), an IKK inhibitor, exhibits effective proapoptotic and anti-inflammatory activities.

## 储存

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