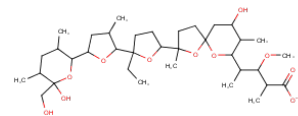


Catalog Number: CM00375

## 产品信息

Catalog Number:  
CM00375CAS号:  
22373-78-0分子式:  
 $C_{36}H_{61}NaO_{11}$ 主要靶点:  
Antibiotic|Antibacterial|Sodium  
Channel主要通路:  
微生物学|离子通道分子量:  
692.85溶解度:  
Ethanol:69.3 mg/mL (100 mM)

## 体外活性

Monensin sodium salt (Coban), isolated from *Streptomyces cinnamonensis*, is a well-known representative of naturally polyether ionophore antibiotics. Monensin is an ionophore related to the crown ethers with a preference to form complexes with monovalent cations such as: Li<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Rb<sup>+</sup>, Ag<sup>+</sup>, and Tl<sup>+</sup>. [1] Monensin A is able to transport these cations across lipid membranes of cells, playing an important role as an Na<sup>+</sup>/H<sup>+</sup> antiporter. It blocks intracellular protein transport, and exhibits antibiotic, antimalarial, and other biological activities. [2] The antibacterial properties of monensin and its derivatives are a result of their ability to transport metal cations through cellular and subcellular membranes. [3]

## 体内活性

LD50: Mice 335 mg/kg (i.g.) [4]; Rats 36.5 mg/kg (i.g.); Chickens 185 mg/kg (i.g.). [5]

## 描述

Monensin sodium is an antiprotozoal agent produced by *Streptomyces cinnamonensis*. Monensin sodium salt causes a marked enlargement of the MVBs and regulates exosome secretion

## 储存

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