

## Apocynin

货号: A2681

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

### 产品描述

Apocynin is a most widely studied pan-NADPH-oxidase inhibitor and a scavenger of hydrogen peroxide, as well as inhibits rho kinases. Apocynin could eliminate hydrogen peroxid in a dose-dependent manner at concentration ranging in 3-100  $\mu$ M. Intraperitoneal injection with Apocynin at dose of 5mg/kg reduced lung injury and blocked NADPH oxidase activation in lung tissues by carrageenan in mice. The administration of Apocynin significantly reduced ICAM-1, P-selectin induced by carrageenan and attenuated neutrophil infiltration into the lung tissue. Also Apocynin attenuated carrageenan-induced TNF- $\alpha$  and IL-1 $\beta$ , iNOS expression, Fas ligand, apoptosis and Bax expression, as well as prevented carrageenan-induced inhibition of Bcl-2 expression and activation of NF- $\kappa$ B pathway and MAPK pathway at 4h post carrageenan injection. Some study showed that Apocynin may work as an antioxidant more than a NADPH oxidase inhibitor for apocynin failed to inhibit superoxide anion generation in HEK293 cells overexpressing NADPH oxidase isoforms (Nox1, Nox2, or Nox4).

### 作用机制

Apocynin is an oxidase assembly inhibitor which can inhibit association of p47phox with membrane-bound heterodimer.

### 产品信息

CAS 号	498-02-2	
分子式	C9H10O3	
分子量	166.17	
溶解度	DMSO	33.0 mg/mL (198.6 mM)
	Water	Insoluble
	Ethanol	33.0 mg/mL (198.6 mM)

