

# Rhein

**Catalog No: tcsc5239**



## Available Sizes

**Size:** 100mg

**Size:** 200mg

**Size:** 500mg



## Specifications

**CAS No:**

478-43-3

**Formula:**

$C_{15}H_8O_6$

**Pathway:**

Autophagy

**Target:**

Autophagy

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 12.17 mg/mL (42.82 mM; Need ultrasonic and warming)

**Alternative Names:**

Rheic Acid;Rhubarb yellow;Monorhein

**Observed Molecular Weight:**

284.22

## Product Description

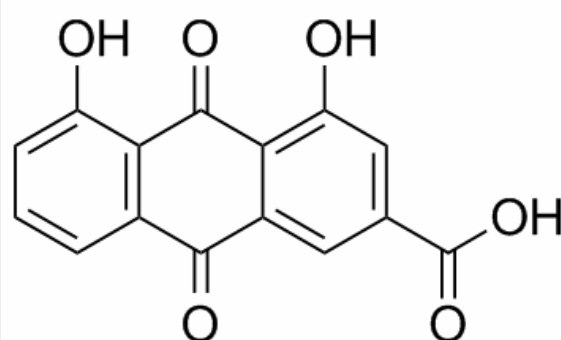
Rhein is a lipophilic anthraquinone extensively found in medicinal herbs, and has many pharmacological effects, including hepatoprotective, nephroprotective, anti-inflammatory, antioxidant, anticancer, and antimicrobial activities.

IC50 value:

Target:

In vitro: Rhein (0.1 and 1 mg/mL) evidently suppressed cell proliferation and mitogen-activated protein (MAP) kinase activation in human colon adenocarcinoma cells (Caco-2) but significantly lessened H<sub>2</sub>O<sub>2</sub>-induced DNA damage and the elevated MDA and ROS levels induced by H<sub>2</sub>O<sub>2</sub>/Fe<sup>2+</sup> at the concentrations of 0.1–10 mg/mL [1].

In vivo: Oral administration of rhein (150 mg/kg/d) evidently ameliorated renal interstitial fibrotic lesions and attenuated the expression of  $\alpha$ -SMA and deposition of fibronectin (FN) in mice with renal interstitial fibrosis induced by unilateral ureteral obstruction. Rhein also suppressed TGF- $\beta$ 1 and its type I receptor expression in obstructed kidneys [1]. The biochemical parameters results of IgAN model rats showed that rhein-prevented and rhein-treated both improved the biochemical parameters and relieved renal pathological injury. The expressions of renal tissue TLR4, TGF- $\beta$ 1, but not TLR9 were significantly elevated in IgAN model rats (P



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