

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

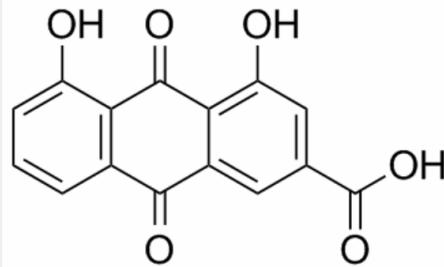
Rhein is a lipophilic anthraquinone extensively found in medicinal herbs, and has many pharmacological effects, including hepatoprotective, nephroprotective, anti-inflammatory, antioxidant, anticancer, and antimicrobial activities.

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 H₂O₂-induced DNA damage and the elevated MDA and ROS levels induced by H₂O₂/Fe²⁺ 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 α -SMA and deposition of fibronectin (FN) in mice with renal interstitial fibrosis induced by unilateral ureteral obstruction. Rhein also suppressed TGF- β 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- β 1, but not TLR9 were significantly elevated in IgAN model rats (P



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