

## Safflower yellow

## Chemical Properties

CAS No.:	1401-20-3
Formula:	N/A
Molecular Weight:	N/A
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Safflower yellow is extracted from the flowers of the plant safflower ( <i>Carthamus tinctorius</i> ). As traditional Chinese medicine, safflower has been extensively used for the treatment of cardio-cerebrovascular diseases.
Targets(IC <sub>50</sub> )	Others: None
In vivo	Safflower yellow (SY) is the safflower extract and is the one of traditional Chinese medicine. Safflower yellow can promote blood circulation, remove blood stasis, and thereby improve capillary circulation at the site of tissue injury. Safflower yellow is mixtures of a water-soluble chalcone component, in which both hydroxyl safflower yellow A (HSYA) and safflower yellow B (SYB) are the main components. Safflower injection excellently protects the heart by way of improving functions of cardiac contraction and dilation, increasing coronary blood flow, and strengthening the bcl-2 (anti apoptosis gene) protein expression. Safflower yellow alleviates the injured tendon adhesion and inflammatory reaction and promoted the repair of injured tendon[1].

## Solubility Information

Solubility	DMSO: 39 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Zhou D, et al. The effect of safflower yellow on spinal cord ischemia reperfusion injury in rabbits. *Oxid Med Cell Longev*. 2013;2013:692302.

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