

## Hydroxysafflor yellow A

## Chemical Properties

CAS No. : 78281-02-4

Formula: C<sub>27</sub>H<sub>32</sub>O<sub>16</sub>

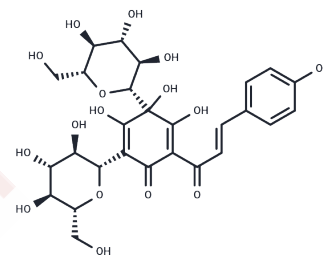
Molecular Weight: 612.53

Keep away from direct sunlight, Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Hydroxysafflor yellow A (Safflomin A) inhibits adipogenesis by increasing HSL promoter activities, effectively protects the liver from long-term alcohol injury by enhancing antioxidant capacity and inhibiting the expression of TGF- $\beta$ , prevents steroid-induced avascular necrosis of the femoral head by inhibiting primary bone marrow-derived mesenchymal stromal cells, and exhibits anti-tumor effects.
Targets(IC50)	Apoptosis, Autophagy, TGF-beta/Smad

## Solubility Information

Solubility	H <sub>2</sub> O: 10 mg/mL (16.33 mM), Sonication is recommended. DMSO: 250 mg/mL (408.14 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.27 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (16.33 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6326 mL	8.1629 mL	16.3257 mL
5 mM	0.3265 mL	1.6326 mL	3.2651 mL
10 mM	0.1633 mL	0.8163 mL	1.6326 mL
50 mM	0.0327 mL	0.1633 mL	0.3265 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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Miao T, Qian L, Yu F, et al. Protective effects of hydroxysafflor yellow an on high oxidized low density lipoprotein induced human coronary artery endothelial cells injuries. *development*. 2019, 22: 581-589.

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