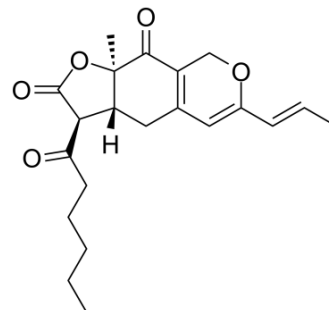


Monascin

Cat. No.:	HY-N6641		
CAS No.:	21516-68-7		
Molecular Formula:	C ₂₁ H ₂₆ O ₅		
Molecular Weight:	358.43		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Monascin is a kind of azaphilone pigments extracted from <i>Monascus pilosus</i> -fermented rice (red-mold rice). Monascin also exhibits anti-tumor-initiating activity and anti-inflammatory activity with oral administration. Monascin inhibits the activation of NOR 1 (an NO donor) ^{[1][2]} .								
In Vivo	<p>Monascin (0.0025% in drinking water; mice) appears effective for the inhibition of UVB-initiated carcinogenesis on mouse skin^[1].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;">Animal Model:</td> <td>SENCAR mouse using a UVB irradiation as an initiator and TPA as a promoter^[1].</td> </tr> <tr> <td style="background-color: #f2f2f2;">Dosage:</td> <td>0.0025% in drinking water.</td> </tr> <tr> <td style="background-color: #f2f2f2;">Administration:</td> <td>Orally daily for 2 weeks in drinking water.</td> </tr> <tr> <td style="background-color: #f2f2f2;">Result:</td> <td>Reduced the number of the papillomas.</td> </tr> </table>	Animal Model:	SENCAR mouse using a UVB irradiation as an initiator and TPA as a promoter ^[1] .	Dosage:	0.0025% in drinking water.	Administration:	Orally daily for 2 weeks in drinking water.	Result:	Reduced the number of the papillomas.
Animal Model:	SENCAR mouse using a UVB irradiation as an initiator and TPA as a promoter ^[1] .								
Dosage:	0.0025% in drinking water.								
Administration:	Orally daily for 2 weeks in drinking water.								
Result:	Reduced the number of the papillomas.								

REFERENCES

[1]. Akihisa T, et al. Anti-tumor-initiating effects of monascin, an azaphilone pigment from the extract of *Monascus pilosus* fermented rice (red-mold rice). *Chem Biodivers*. 2005 Oct;2(10):1305-9.

[2]. Lee CL, et al. *Monascus* fermentation of dioscorea for increasing the production of cholesterol-lowering agent--monacolin K and antiinflammation agent--monascin. *Appl Microbiol Biotechnol*. 2006 Oct;72(6):1254-62.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA