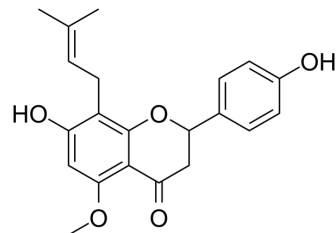


Isoxanthohumol

Cat. No.:	HY-N2584A		
CAS No.:	521-48-2		
Molecular Formula:	C ₂₁ H ₂₂ O ₅		
Molecular Weight:	354.4		
Target:	HSV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (141.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8217 mL	14.1084 mL	28.2167 mL
		5 mM	0.5643 mL	2.8217 mL	5.6433 mL
10 mM		0.2822 mL	1.4108 mL	2.8217 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.05 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Isoxanthohumol is a prenylflavonoid from hops and beer. Isoxanthohumol exhibits an antiproliferative activity against several human cancer cell lines. Isoxanthohumol inhibits the development of lung metastatic foci in tumor-challenged animals. Isoxanthohumol shows an antiviral activity towards herpes viruses (HSV1 and HSV2) and bovine viral diarrhea virus (BVDV) ^{[1][2]} .	
IC₅₀ & Target	HSV-1	HSV-2

CUSTOMER VALIDATION

- Phytother Res. 2023 Mar 7.

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REFERENCES

- [1]. Żołnierczyk AK, et al. Isoxanthohumol--Biologically active hop flavonoid. *Fitoterapia*. 2015 Jun;103:71-82.
- [2]. Krajnović T, et al. The hop-derived prenylflavonoid isoxanthohumol inhibits the formation of lung metastasis in B16-F10 murine melanoma model. *Food Chem Toxicol*. 2019 Jul;129:257-268.
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Caution: Product has not been fully validated for medical applications. For research use only.

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