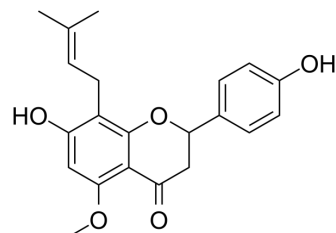


Isoxanthohumol

| | | | |
|---------------------------|--|-------|----------|
| 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 |

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.

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

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