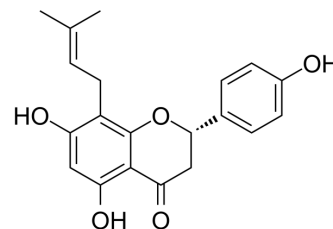


## 8-Prenylnaringenin

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-N2787   |
| <b>CAS No.:</b>           | 53846-50-7   |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>20</sub> O <sub>5</sub>   |
| <b>Molecular Weight:</b>  | 340.37   |
| <b>Target:</b>            | Apoptosis  |
| <b>Pathway:</b>           | Apoptosis  |
| <b>Storage:</b>           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |   |                          |              |            |            |
|---|---|--------------------------|--------------|------------|------------|
| <b>In Vitro</b>   | DMSO : 250 mg/mL (734.49 mM; Need ultrasonic)   |                          |              |            |            |
|   |   | Solvent<br>Concentration | Mass<br>1 mg | 5 mg       | 10 mg      |
|   | <b>Preparing Stock Solutions</b>  | 1 mM                     | 2.9380 mL    | 14.6899 mL | 29.3798 mL |
|   |   | 5 mM                     | 0.5876 mL    | 2.9380 mL  | 5.8760 mL  |
|   |   | 10 mM                    | 0.2938 mL    | 1.4690 mL  | 2.9380 mL  |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |              |            |            |
| <b>In Vivo</b>  | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 2.08 mg/mL (6.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.08 mg/mL (6.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.08 mg/mL (6.11 mM); Clear solution</li> </ol> |                          |              |            |            |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | 8-prenylnaringenin is a prenylflavonoid isolated from hop cones <i>Humulus lupulus</i> , with cytotoxicity. 8-prenylnaringenin has anti-proliferative activity against HCT-116 colon cancer cells via induction of intrinsic and extrinsic pathway-mediated apoptosis. 8-Prenylnaringenin also promotes recovery from immobilization-induced disuse muscle atrophy through activation of the Akt phosphorylation pathway in mice <sup>[1] [2] [3]</sup> . |
|--------------------|---|

### REFERENCES

[1]. Koosha S, et al. Antiproliferative and apoptotic activities of 8-prenylnaringenin against human colon cancer cells. *Life Sci.* 2019 Jul 3;116633.

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[2]. Mukai R, et al. 8-Prenylnaringenin promotes recovery from immobilization-induced disuse muscle atrophy through activation of the Akt phosphorylation pathway in mice. *Am J Physiol Regul Integr Comp Physiol*. 2016 Dec 1;311(6):R1022-R1031.

[3]. Stompor M, et al. In Vitro Effect of 8-Prenylnaringenin and Naringenin on Fibroblasts and Glioblastoma Cells-Cellular Accumulation and Cytotoxicity. *Molecules*. 2017 Jun 30;22(7).

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

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