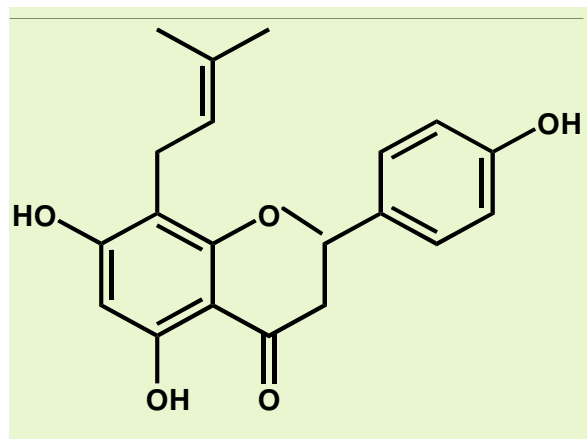


8-Prenylnaringenin (8-PN)

❖ Overview

- **8-PN** is a natural product produced by the hop plant.
- **8-PN** is the most potent phytoestrogen to date discovered in hops.
- **8-PN** is being studied by Universities and research facilities around the world for several pharmaceutical applications.

Molecular Structure of 8-Prenylnaringenin



❖ Specification

- **Description:** A white colored powder.
- **Concentration:** > 90 % 8-Prenylnaringenin by HPLC
- **Ethanol, Ethylacetate:** < 0.1 % by GC
- **Density:** ~ 0.5 g / ml
- **Solubility:** Very soluble in ethanol, nearly insoluble in water.

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❖ Properties

❑ Physiological Properties

8-PN has been identified as a phytoestrogen with strong estrogen receptor-alpha activity in “in-vitro”-tests.

❑ Orac Test Results

Peroxyl Radical Scavenging Capacity

	μmol Trolox/g
8-Prenylnaringenin	29390
Xanthohumol (> 98%)	23447
Isoxanthohumol (> 98%)	19073
*Quercetin-Dihydrate (90%)	21779

Hydroxyl Radical Scavenging Capacity

	μmol Trolox/g
8-Prenylnaringenin	32639
Xanthohumol (> 98%)	72245
Isoxanthohumol (> 98%)	29600
*Quercetin-Dihydrate (90%)	5610

* Quercetin-Dihydrate (90%) was used as a reference standard.

❑ Storage stability

8-PN is stable for two years from the date of production. The product should be stored < 5° C and be protected from light.

❑ Safety

8-PN is classified in GHS category 5. If **8-PN** comes in contact with the eyes wash off with plenty of water and seek medical attention.

For full safety information please see the relevant Steiner material safety data sheet.

❑ Quality

All Hopsteiner® products are produced in plants accredited to internationally accepted quality standards.

❖ Packaging

8-PN is packaged in various types of contains depending on custom requirements.

❖ Analytical methods

The concentration of **8-PN** can be determined by HPLC Analytica-EBC 7.8 with UV detection 290 nm.

❖ Technical Support

We will be pleased to offer help and advice on the full range of Hopsteiner® products:

- ❑ Copies of all relevant analytical procedures
- ❑ Material Safety Data Sheets (MSDS)
- ❑ Assistance with pilot or commercial trials
- ❑ Specialist analytical services

❖ Remarks

We take great care in preparing **8-PN** from hops, however, the use or application is the sole responsibility of the buyer.

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