

ISOMiAX™

~Soy bean Isoflavone & Saponin, Ceramide~



1. Introduction

Soybean (Latin name: *Glycine max*) is currently used to make foods such as MISO, NATTO, soy sauce, and TOFU in Asia. These foods are an integral part of healthy life in Asia. Research into the benefits of Soybean is ongoing, and many functions and active compounds have been identified, such as Isoflavone, Saponin, and Ceramide.

A recent epidemiological study revealed that menopausal disorders are relatively infrequent among Japanese women and that mortality rates due to prostate and breast cancers are lower in Japan than in Europe. This has been attributed to the female hormone-like activity of soybean Isoflavone.

2. Constituents of Soy

- Isoflavone

 - Daizein, Genistein, Glycitein and each glycosides

- Saponin

 - Group A(Acetyl-soyasaponin A1-A6)

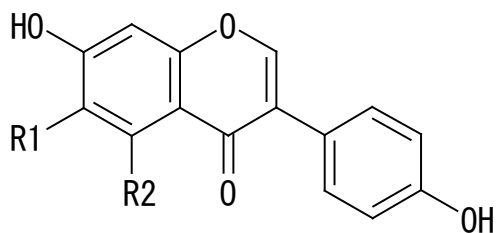
 - Group B(Soyasaponin I~V)

- Ceramide

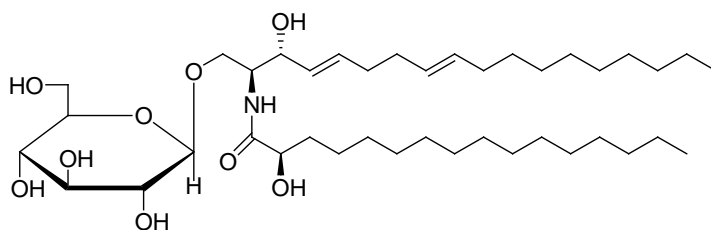
- Others

 - Phospholipids

 - Linoleic acid etc.



Isoflavone



Ceramide

3. The variety of Soybean products

1) Isoflavone products

ISOMAX-10: more than 10% isoflavone glycosides

ISOMAX-30: more than 30% isoflavone glycosides

ISOMAX-40: more than 40% isoflavone glycosides

ISOMAX-80: more than 80% isoflavone glycosides

ISOMAX-WS5(water-soluble type): more than 5% isoflavone glycosides

2) Soy saponin

Soy-saponin: more than 85% saponin

3) Soy ceramide

Soy-ceramide: more than 0.5% cerebrosides

4. Pharmacological activity

1) **Isoflavone:**

Estrogen-like activity, anti-cancer (breast, prostate) effects, improvement of menopausal disorder, prevention of osteoporosis

2) **Soy saponin:**

Cholesterol reduction, anti-cancer

3) **Soy ceramide:**

This key substance is implicated in a variety of physiological functions (e.g., apoptosis, cell growth arrest, differentiation, cell senescence, cell migration and adhesion)

5. Use

These products derived from Soybean are widely used, from health foods to cosmetics.

6. Recommended dosage

Soy Isoflavone:

In Japan, the recommended dosage is 6~30 mg/day as Isoflavone aglycone in cases of Food for Specified Health Uses (FOSHU). This value is equivalent to 9.6~48 mg of isoflavone glycoside.

Soy saponin:

The recommended dosage is 100 mg/day, the standard usage in Japanese health supplements.

Soy ceramide:

In general, the recommended dosage is 0.6-1.2 mg/day as ceramide, equivalent to 120-240 mg as product.

7. Contact

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