

# FLORANT-FG

- For Whitening agent -

Applicable products of FLORANT-FG

Skin care: Lotion, Toner, Cream, etc

## What is FLORANT-FG ?

FLORANT-FG provides whitening effect by inhibiting of expression for inflammation. Saponins are the major contributors to the anti-inflammation activity; In addition to the previous properties there is published research to show that the saponin have strong anti-inflammatory properties.

### About "Ginseng flower"

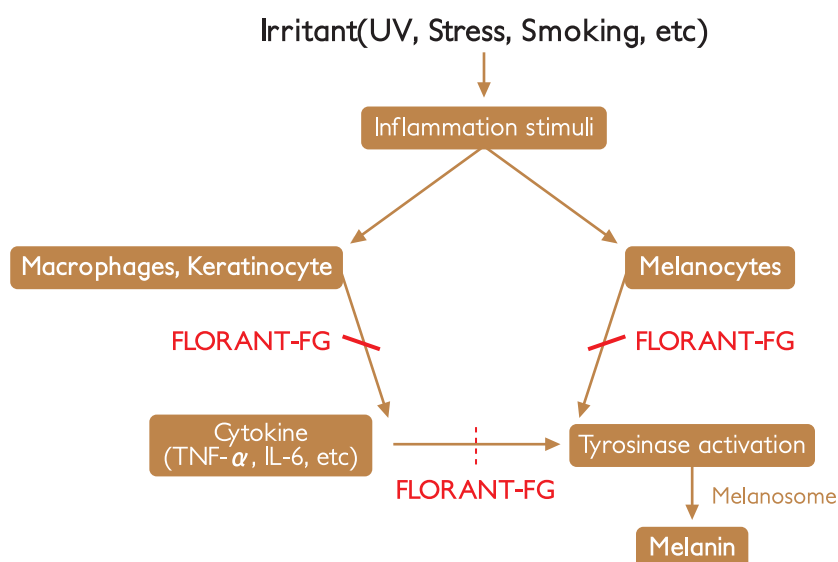


Common name	Korea ginseng, ginseng flower
Latin name	<i>Panax ginseng C. A. Meyer</i>

Panax ginseng contains triterpene glycosides, or saponins, commonly referred to as ginsenosides. Many active compounds can be found in all parts of the plant, including amino acids, phenols, proteins, polypeptides, and vitamins B1 and B2. Up to 40 distinct ginsenosides have been identified.

Fermented ginseng flower extract has more crude saponin than ginseng flower extract.

### Proposed mechanism for FLORANT-FG



FLORANT-FG provide whitening effect by regulating inflammation factor such as NO, IL-6 and TNF- $\alpha$  which induced inflammation

### SPECIFICATION

INCI Name

Color

Preservative

Packing unit

Shelf life

Dosage

Water / Butylene Glycol / Saccharomyces / Panax Ginseng Flower Ferment Extract

Dark Brown

Non-added

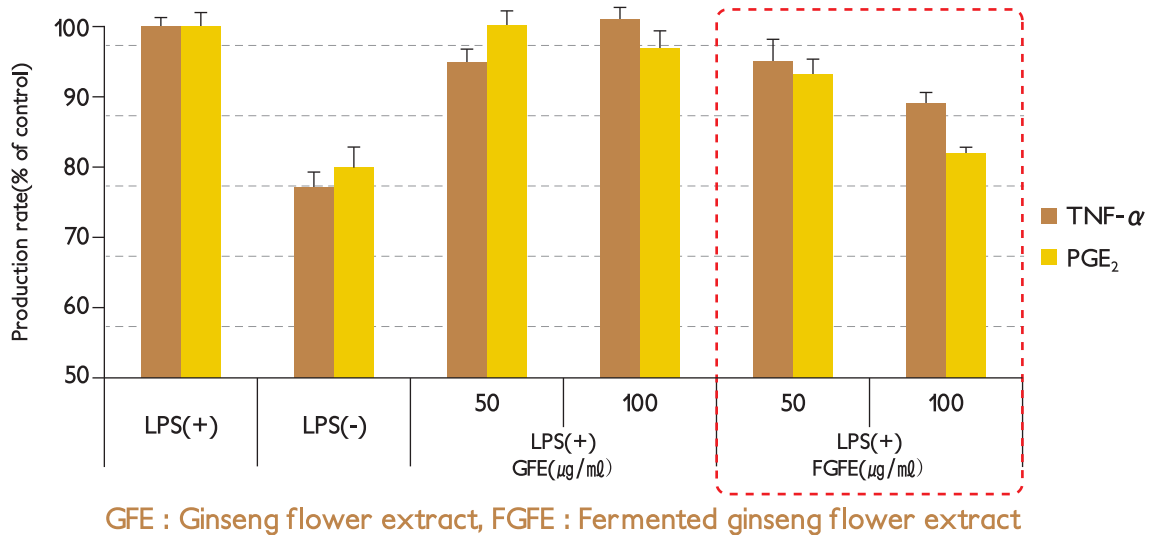
5kg / 10kg / 20kg

2 years

0.5~2%

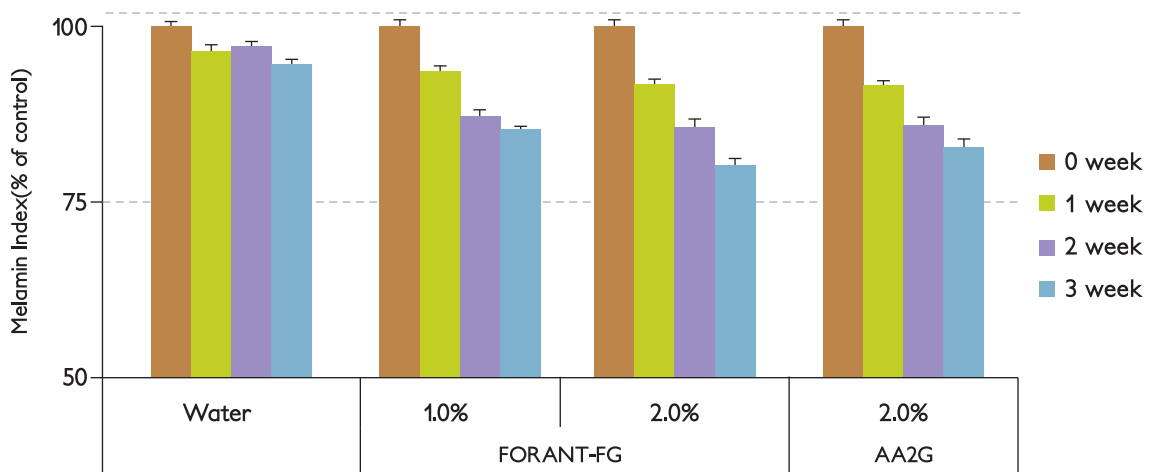
# Main Biological Effects for Cosmetics

## ● Anti-inflammation activity : Cytokine expression; $\text{TNF-}\alpha$ , $\text{PGE}_2$



Fermented ginseng flower extract inhibits the production of  $\text{PGE}_2$  and  $\text{TNF-}\alpha$  which are inflammation factor. Fermented ginseng flower extract showed better effect than ginseng flower extract.

## ● Whitening effect (In-vivo test) by Mexameter, MX18



Measurements were made on volunteer's forearms using a MX18 MPA Mexameter. After 3 weeks, the melanin index of FLORANT-FG treated group was significantly reduced.