

## Glabridin 95

### Description

Glabridin 95 is an extract from *glycyrrhiza glabra* (licorice roots) with > 95 % glabridin. Lipophilic extracts of licorice root have been widely used in the cosmetics industry for skin tone lightening. The raw materials on the market are typically very dark and contain a low percentage of the active constituent glabridin. Glabridin 95 is improved in purity to eliminate color problems and markedly enhances the activity. It is significantly more effective in inhibiting tyrosinase activity and melanin production than e.g. kojic acid. Glabridin is also known to be a potent lipophilic antioxidant that inhibits superoxide release from macrophages and elevates glutathione levels. It has been shown to protect mitochondria from oxidative damage.

Glabridin 95 is a potent tyrosinase inhibitor that is safe to use. It has been shown to impact melanogenesis in multiple ways. It inhibits tyrosinase expression significantly, decreases the catalytic activity of tyrosinase, inhibits the release of Endothelin-1, a UVB-induced mediator that stimulates melanocyte proliferation and migration, and enhances melanocyte dendricity. It also decreases the activity of Phospholipase A2. This enzyme up-regulates the expression of tyrosinase and TRP-1 and stimulates tyrosinase activity and is also involved in melanosome transfer and melanocyte dendricity.

### Efficacy

- lightens the skin
- reduces age spots
- acts soothing
- acts as an antioxidant
- acts anti-microbial
- reduces inflammations

### Appearance

off white powder

### INCI

Glycyrrhiza Glabra Root Extract or Glabridin

### Registration

CAS-No.....84775-66-6

EC-No.....283-895-2

Chemical name: Glabridin

CAS-No.....59870-68-7

EC-No.....-/-

### Preservatives / Stabilizers

none

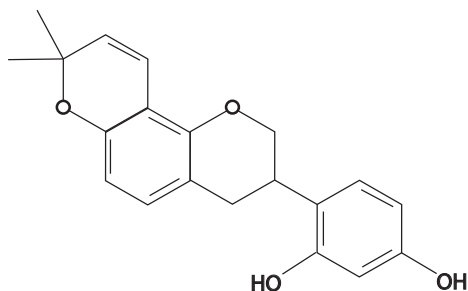


Nature needs no cosmetics,  
but cosmetics need nature

## Glabridin 95

### Characteristics

glabridin content (HPLC).....>= 95 %  
loss on drying.....<= 3 %



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molecular weight .....324.37 g/mol  
molecular formula..... C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

### Application

daily cosmetic products  
creams and lotions  
face masks  
gels and ampoules  
body care  
hair care

### Application concentration

skin care formulations.....0.03 – 0.05 %

### Incorporation

Glabridin 95 is soluble in glycols. Premix in a suitable solvent, such as glycol, heat gently while stirring, add during cool-down phase. Avoid extended exposure to high heat.

### Toxicology

non hazardous in normal use concentration

### Storage & Shelf life

Glabridin 95 should be stored in original sealed containers in a dry and light protected place at temperatures between 10 – 25°C.

In closed original containers the shelf life is 24 months.