



**Name :** Kelp Extract Fucoidin

**Source:** Kelp

**Botanical Name :** Fucus  
vesiculosus L

**Extract part:** Whole algae

**Purity:** 85%

**Composition:** Fucoidin

**Appearance:** Fine Brownish  
Yellow powder

**Test Method:** UV-VIS

**Country of origin:** P.R. China

### What is

Magnolia is a large genus of about 210[notes 1] flowering plant species in the subfamily Magnolioideae of the family Magnoliaceae. It is named after French botanist Pierre Magnol.

Magnolia is an ancient genus. Appearing before bees did, the flowers are theorized to have evolved to encourage pollination by beetles. To avoid damage from pollinating beetles, the carpels of Magnolia flowers are extremely tough.[1] Fossilised specimens of *M. acuminata* have been found dating to 20 million years ago, and of plants identifiably belonging to the Magnoliaceae date to 95 million years ago.[2] Another aspect of Magnolia considered to represent an ancestral state is that the flower bud is enclosed in a bract rather than in sepals; the perianth parts are undifferentiated and called tepals rather than distinct sepals and petals. Magnolia shares the tepal characteristic with several other flowering plants near the base of the flowering plant lineage such as *Amborella* and *Nymphaea* (as well as with many more recently derived plants such as *Lilium*).

### Function

1. Magnolia bark extract powder can be used as antioxidant;
2. Magnolia bark extract powder used to inhibits bacteria and pathogenic fungi;
3. Magnolia bark extract powder with the function of anti-stress and anti-anxiety;
4. Magnolia bark extract powder has the effect on antineoplastic .

### Application

#### Pharmacokinetics

The pharmacokinetics of honokiol have been explored in rats and mice; however, further research must be done in humans.[28] Intravenous delivery of 5 – 10 mg/kg in rodent models has shown a plasma half-life of around 40 – 60 minutes while intraperitoneal injections of 250 mg/kg had a plasma half-life around 4 – 6 hours with maximum plasma concentration occurring between 20 – 30 minutes.[1][29]

**Delivery methods**

Honokiol is most commonly taken orally. There are a number of supplements available containing honokiol. Magnolia tea made from the bark of the tree is also a common delivery method of honokiol.[citation needed] Both Native Americans and Japanese medicine use tea gargles to treat toothaches and sore throats.[30] Because honokiol is highly hydrophobic it must be dissolved in a lipid for many delivery methods. In many current animal studies the compound is dissolved in a lipid emollient and delivered through intraperitoneal injection. There is ongoing[when?] work developing liposomal emulsions for IV delivery

