

Ficin (100)

Description

Ficin (100) is a plant derived proteolytic enzyme isolated from the latex of *Ficus carica* (fig tree). It belongs to the group of cysteine proteases and is well known for its efficient protein cleaving performance combined with good stability, which makes it particularly suitable for use in cosmetic formulations. Derived from a natural plant source, Ficin has traditionally been used for protein processing due to its high enzymatic activity under mild conditions. In cosmetic applications, this results in effective yet skin friendly performance, meeting modern demands for naturally inspired, high efficacy ingredients. Ficin selectively hydrolyzes proteins and polypeptides, breaking them down into smaller peptides that can support improved interaction with the skin surface. At the same time, it helps to actively remove aged keratinocytes through enzymatic exfoliation rather than mechanical stress. Unlike abrasive exfoliants, enzymatic exfoliation works gently and evenly, contributing to a smoother, more refined skin appearance and supporting skin renewal.

Efficacy

- supports enzymatic exfoliation of aged keratinocytes
- reduces inflammations
- supports a more even skin tone
- supports skin renewal processes
- supports hair and scalp cleansing

Appearance

white or light yellow powder

INCI

Ficin

Registration

CAS-No.....9001-33-6

EC-No.....232-599-1

Preservatives / Stabilizers

none



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Characteristics

enzyme activity.....>= 100000 U/g
loss on drying.....<= 6 %

Application

facial care
body care
hair & scalp care

Application concentration

0.01 - 2 %

Incorporation

Ficin is water-soluble.
Add during the post-production stage; the product may be pre-dissolved in water before incorporation.

Toxicology

Non hazardous under normal conditions of use.
Adequate ventilation of the work area should be ensured. Avoid dust generation and inhalation.

Storage & Shelf life

Store in the original, tightly sealed containers in a dry, well-ventilated and light-protected place. For long-term storage, cool conditions (2 – 8 °C) are recommended.

Keep away from incompatible materials, particularly strong oxidizing agents.

In closed original containers the shelf life is 24 months.