

Sebodulin

Restoration of healthy hydrolipidic film on skin





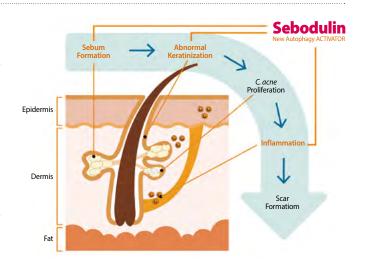


The first sebum formation (sebogenesis) modulating ingredient based on autophagy signaling, helping to restore the healthy hydrolipidic film on skin with anti-inflammatory activity against *C. acne*



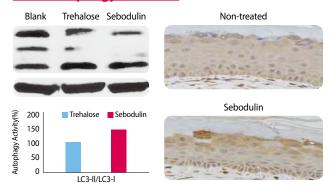
Description

Excessive sebum formation, follicular epithelial barrier dysfunction, and inflammatory responses induced by *Cutibacterium acne* are major triggering and aggravating factors for acne. While conventional anti-acne ingredients addressing sebum formation usually dry up the skin surface, resulting in skin dryness, Sebodulin restores healthy hydrolipidic film by activation of autophagy in sebocytes, the sebum making cells in skin. Sebodulin also help to alleviate the inflammatory responses by *C. acne* and to improve the skin barrier function.



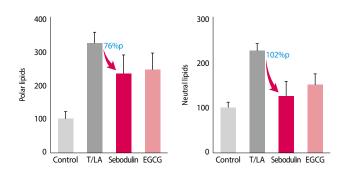
Biological activity

New Autophagy Activator



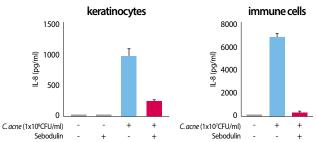
Sebodulin activates the autophagy in cultured immortalized sebocytes(left) and reconstituted skin model(right).

Reduction of Sebum Formation



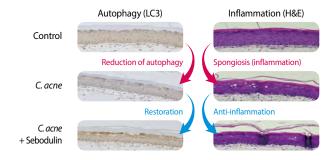
Sebodulin reduces lipid synthesis in cultured human sebocytes

In vitro Anti-inflammatory Activity



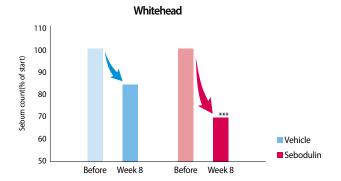
Sebodulin inhibits pro-inflammatory cytokine IL-8 secretion in skin keratinocytes(left) and immune cells(right) treated with cell free extract of *C. acne*.

Reduction of Inflammatory Response by C. acne

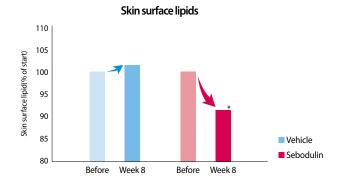


Sebodulin preventes reduction of autophagy and increase of inflammation caused by topical application of *C. acne* in reconstituted skin model

Clinical efficacy



Sebodulin contained product reduces whitehead by 30% than before (by investigator assessment).



Sebodulin contained product reduces quantity of skin surface lipid (by sebumeter).

PCPC/INCI Name

 Pentasodium Tetracarboxymethyl Heptadecanoyl Dipeptide-12

Composition

· Sebodulin, 1,2-Hexanediol, Water

Application

- Anti-inflammation
- Anti-greasiness
- Anti-ACNE

Recommended Dosage

- 1~2% for cream, lotion and essence
- 0.01~0.1% for masksheet