

Personal Care

AAK

enhancing  
the power  
of nature



## Lipex PreAct™

Bioactive emollient for improving skin protection  
through photoprotection and reduced skin irritation

emollients

# Lipex PreAct™

Lipex PreAct is a bioactive emollient derived from renewable and locally grown rapeseed oil. It combines skin protecting and caring activities from natural vitamin E and phytosterols, with excellent emollient and moisturising properties. Lipex PreAct is a high quality, safe and stable cosmetic ingredient well suited for skin, body and sun-care applications.

## Lipex PreAct is photoprotecting

The characteristic high content of tocopherols and phytosterols combines both antioxidant and anti-

inflammatory properties for protecting the skin against environmental stress conditions, maintaining the skin barrier function and balanced skin conditions. These aspects are also important for improving the skin protecting properties of sunscreen formulations.

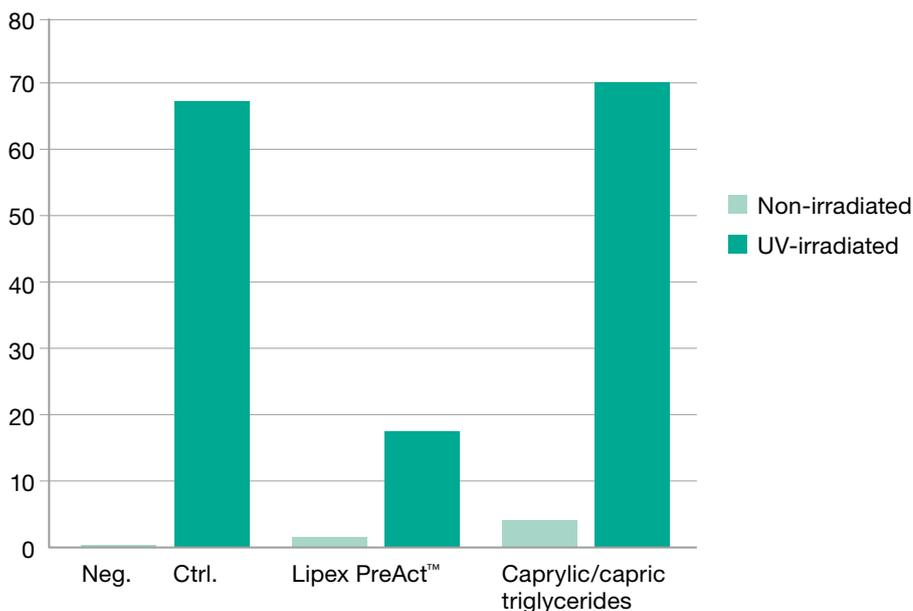
UV-irradiation not only causes erythema and sunburn, but it also induces formation of free radicals and activation of skin proteinases. Free radicals and reactive oxygen species may also cause breakdown of skin lipids and proteins. The initiation of proteinase activity results in a breakdown of skin

collagen and elastin. These photo-ageing processes result in thinner and more wrinkled skin with pronounced lines, and skin with higher sensitivity to environmental stress.

Lipex PreAct offers significant protection of the epidermal skin cells after UV-exposure corresponding to normal outdoor conditions. High protection of both proteins and cell membranes, as well as reduced formation of inflammatory mediators have been observed. The photoprotecting properties are further demonstrated in skin explants irradiated by UV. Treatment with a Lipex PreAct cream resulted in complete absence of sunburn cells and reduced formation of thymine dimers, indicating DNA protecting capacity.

### Lipex PreAct™ protects skin proteins and lipids against photo-oxidation

DNPH compared to initial situation (%)



## Tocopherols and phytosterols contribute to skin soothing and moisturising properties

The unique blend of tocopherols and phytosterols in Lipex PreAct offers skin soothing properties demonstrated in a clinical test on surfactant-irritated skin. Lipex PreAct helps to restore the skin barrier after damage, and reduces the irritation. Being a vegetable oil, it is also an effective emollient and moisturiser.

## Applications and Claims

Lipex PreAct can be used as an additive in all types of skin care creams and lotions, in concentrations ranging from 2-5%. It is well suited for creating safe and sustainable formulations. The ability to reduce skin damage and environmental stress, such as UV-exposure, makes it highly suitable for use in sun-care and other formulations for outdoor use. Lipex PreAct is also an option in all applications involving products for sensitive and irritated skin thanks to its calming and soothing properties.

- ◆ photoprotecting
- ◆ reduces skin irritation
- ◆ supports improved skin health

<b>Product name</b>	Lipex PreAct™
<b>INCI name</b>	Canola Oil (EU) (US)
<b>Actives</b>	900ppm tocopherols and 7000ppm phytosterols
<b>Physical form 20 °C</b>	Liquid
<b>Regulatory status</b>	Cosmetics Regulation 1223/2009 (EU) REACH Exempted (Annex IV, SDA 11)
<b>Approvals</b>	ECOCERT COSMOS

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