Azeclair™ is a derivative of azelaic acid with sebum normalizing and skin brightening properties. This oil-control agent has very good water solubility and compatibility with other cosmetic ingredients.

Azelaic acid is recognized as an anti-acne agent with therapeutic result. It provides both antibacterial and comedolytic effects, and is effective against a number of skin conditions, from mild to moderate acnes. It helps to inhibit the growth of skin bacteria that causes acne and keep the skin pores clean. Azelaic acid is also known as an effective inhibitor of tyrosinase, delivering brightening effect to the skin. Although azelaic acid has significant pharmaceutical uses and increasing applications in professional medical treatment, it has found little, if any, use in cosmetic and personal care formulations primarily due to its low water/oil solubility and irritation properties to the skin and eyes. In addition, regulatory ban in ASEAN countries also limits its use and application in cosmetics products.

Azeclair™ (INCI: Potassium Azeloyl Diglycinate), a glycinated derivative of azelaic acid, inherits the benefits of azelaic acid, and at the same time provides ease of application in skin care cosmetics. This derivative has outstanding oil control and skin clarifying properties, and is soluble in water without affecting the appearance or transparency of the finished products, making it an effective ingredient that is easy to formulate with. It also has good compatibility with other cosmetic ingredients and a good safety and stability profile. Last but not least, Azeclair™ is cosmetic grade without regulatory limitation worldwide.
A 28–day skin lightening test was carried out by Spincontrol, according to the chromometry principle. The volunteers comprised 15 healthy females with skin type III. 10% Azeclair™ cream (3% active) was treated twice daily on the subjects’ forearms. Data demonstrate a significant improvement in skin luminance (L* value) after 28 days of application, showing a significant skin lightening effect of Azeclair™.

Tyrosinase is a rate-limiting oxidase for controlling the production of melanin. To understand the effect of Azeclair™ in preventing pigmentation in the skin, a study was carried out to investigate the enzyme level after Azeclair™ treatment. Results demonstrate that Azeclair™ has a better inhibition on tyrosinase compared with β-arbutin, and the reduction was in a dose-dependent manner.

20 healthy Asian subjects, age between 25–40 years old, with a greasy/ seborrheic skin, were enrolled in this study to evaluate the in-vivo sebum-regulating effect of Azeclair™. 10% Azeclair™ cream (3% active) was applied on the subjects’ faces for 3 weeks. The sebum droplet distribution on the forehead was analyzed using Sebutape®, a sebum-sensitive adhesive film used to visualize and measure human sebaceous secretion. The results were then transferred to binary imaging after threshold process to further quantify the data.
Azeclar™

Efficacy Study

Sebum Normalizing:
In-Vivo Oil Control Study

Results show that Azeclair™ has significant effect in reducing **active sebum follicles (-18.89%)**, **follicular sebum secretion rate (-37.51%)**, as well as **total sebum excretion rate (-37.47%)** after 28 days of treatment.

Over 70% of volunteers found their skin felt **more hydrated and smoother** and **less greasy and oily** after application, and over 90% felt the improvement of skin oiliness **within 3 weeks**. The skin texture also became healthier and brighter during the treatment, with **none** of the volunteers reported any skin irritation after application.

Less oily and brighter skin condition after 28 days of Azeclair™ application
Azeclair™
Azelaic Acid Derivative: Oil Control Brightening Agent

Claim Ideas for Azeclair™
- Sebum regulating
- Skin brightening/ clarifying
- Lighten acne spots
- Improve radiance and hydration of the skin

Applications
- Oil control products
- Anti-acne products
- Skin clarifying products

Marketing Benefits
- Excellent water solubility
- Non-irritant to the skin
- Safe and stable
- Good compatibility with other cosmetic ingredients
- China approved (listed on IECIC 2015 version)