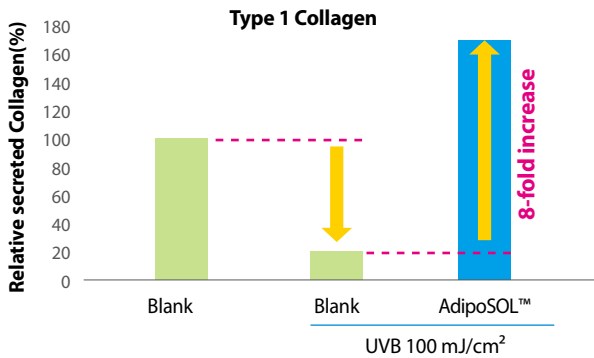
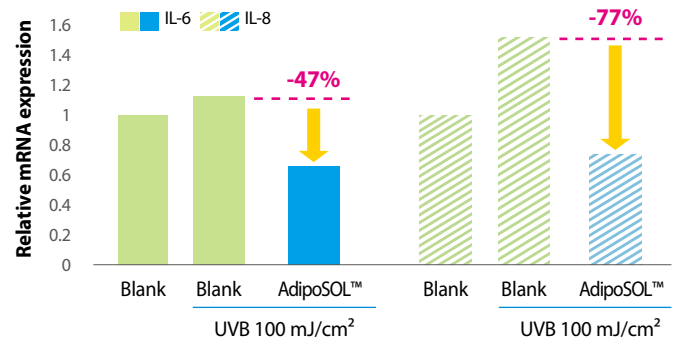


Recovers Collagen Reduction



AdipoSOL™ recovers collagen expression inhibited by UV exposure in 3D Skin model.

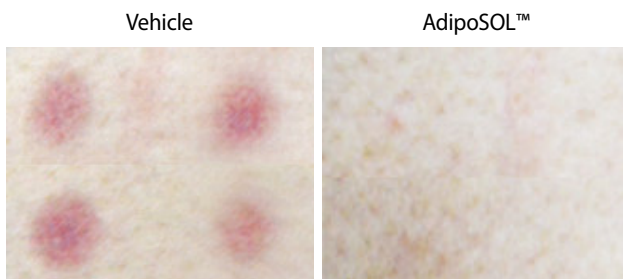
Reduces Inflammatory Signal



AdipoSOL™ reduces expression of inflammatory cytokines affected by exposure in 3D Skin model.

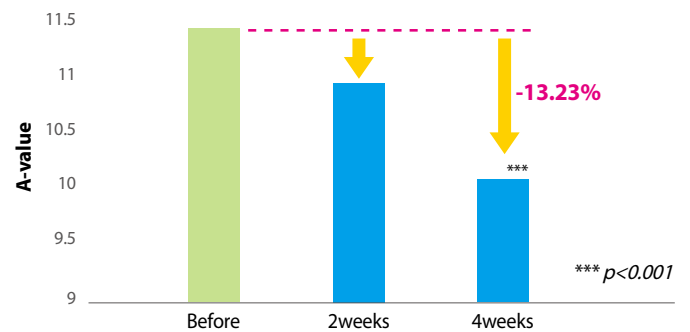
Clinical Efficacy

Prevents Redness



• Redness formation after UV exposure in topical skin application of **AdipoSOL™** is less severe than vehicle.

Reduces Skin Redness



• 12 volunteers were applied with 100ppm **AdipoSOL™** in cream or vehicle for 4 weeks.
 • **AdipoSOL™** reduces skin redness by 13.23% compared to that of the control. Skin redness was measured using Chromameter.

PCPC/INCI Name

- Tetracarboxymethyl Hexanoyl Dipeptide-12

Composition

- AdipoSOL™, 1,3-Butylene Glycol, Water

Recommended Dosage

- 2% for cream and lotion formulation

Application

- Suncare (Sun-Block creams and lotions)
- Skincare (After-Sun Products) • Redness relief

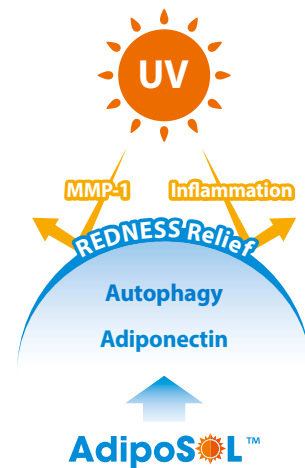
AdipoSOL™ is a novel ingredient for anti-photoaging and protects skin from environmental stress through autophagy activation and adiponectin induction in skin cells.

Description

Environmental stress, such as UV, decreases the expression of adiponectin, a well-known adipokine, leading to the exacerbation of environmental ageing by stimulating MMP-1 expression and inhibiting procollagen synthesis.

Thus the repeated skin damage and imperfect repair caused by environmental stress results in “photoageing” and “inflammageing”.

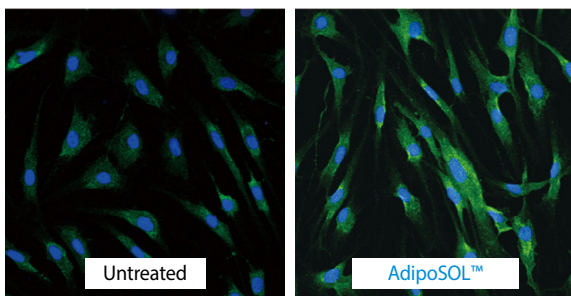
AdipoSOL™ has multiple functions against environmental stress such as the recovery of adiponectin/collagen expression and decrease of MMP-1/ inflammatory cytokines.



Biological Activity

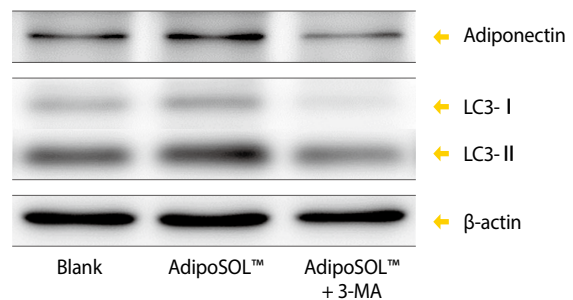
Activates Autophagy

- Autophagy reduces the inflammation and oxidative stress caused by various environmental stresses including UV.
- Enhancing of autophagy leads to anti-ageing effect.



Increases Adiponectin Expression

- Increment of adiponectin expression in the effectiveness of **AdipoSOL™** is reduced by treatment of Autophagy inhibitor.



Decreases MMP-1 Expression

AdipoSOL™ reduces UV-mediated increase of MMP-1 expression in 3D Skin model.

