

Soliance - Grevilline PF

Phytomarine soother



Givaudan

engage your senses



Grevilline PF

Phytomarine soother

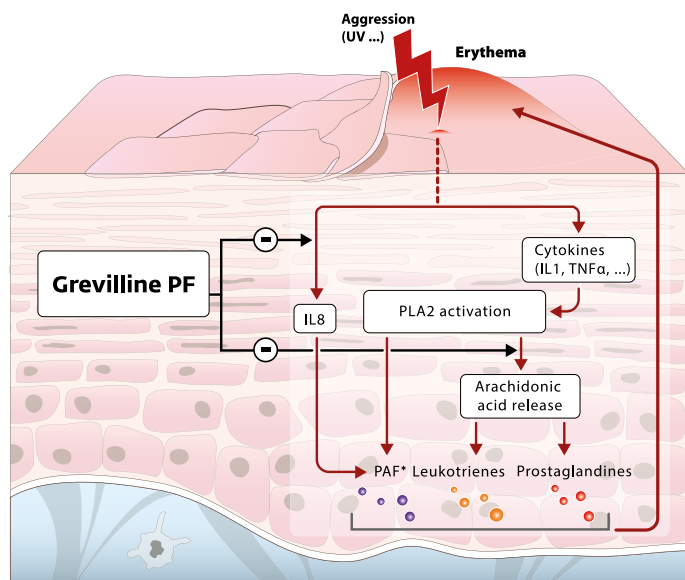


Grevilline PF is a peptide rich microalgae-derived ingredient extracted from *Skeletonema costatum*. It modulates two key mediators to soothe away skin redness and inflammation.

Soothing properties

Inflammation is a localized protective response to an aggression. This mechanism induces the release of inflammatory mediators, leading to erythema.

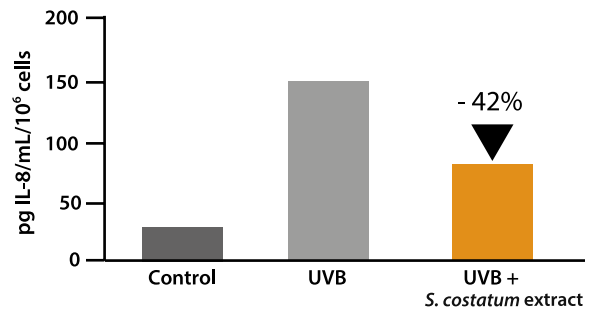
Grevilline PF acts specifically on two key mediators that trigger the inflammatory cascade: Interleukine 8 (IL-8) and Phospholipase A2 (PLA2).



*PAF: Platelet Activating Factor

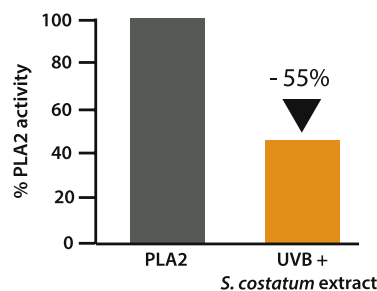
Inhibition of IL-8 release (In vitro test)

Keratinocyte cultures treated with *Skeletonema costatum* extract at 40 µg/ml were exposed to UV.



Grevilline PF inhibits IL-8 release after UVB exposure.

Inhibition of PLA2 activity (In tubo test)



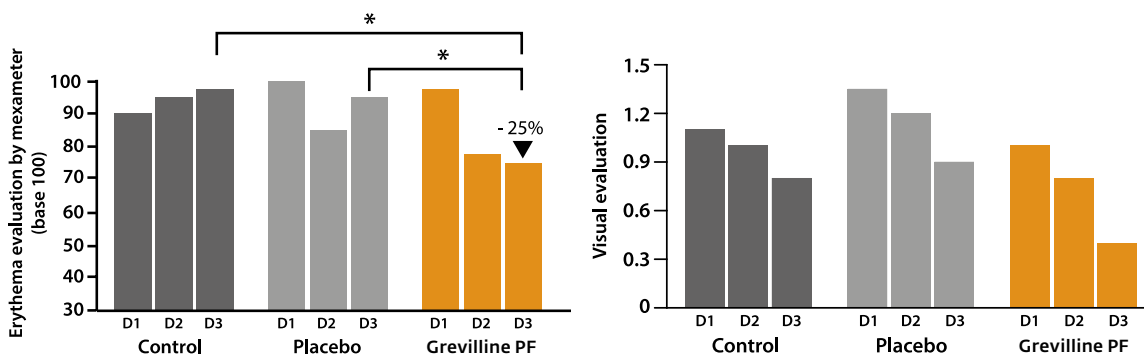
PLA2 reacts with phospholipids, in this case DMPC, to release non soluble free fatty acids.

PLA2 activity in the presence of *Skeletonema costatum* extract was evaluated through free fatty acid release.

Grevilline PF prevents arachidonic acid release by inhibiting PLA2.

Erythema reduction (In vivo test)

A cream containing 3% Grevilline PF was applied by a panel (10 volunteers) on a UV-induced erythema, twice a day. Skin redness was measured using a mexameter, and a visual evaluation of the erythema (scoring: from 0 to 4) was performed by a dermatologist.



* p < 0.05

Grevilline PF significantly reduces UV-induced erythema within 3 days of use.

INCI name: Glycerin (and) Water (and) *Skeletonema Costatum* extract.

Preservative: Phenoxyethanol.

Dosage: 1% to 3% | **Form:** liquid | Hydrosoluble

Cosmetic applications: Sun protection and after sun products, soothing products, specific care for acne prone skin, after shave products, baby care.