

SEQENS

PERSONAL CARE

SENS'FLOWER™

Saffron flower extract for reactive
and hypersensitive skin

THE SENSITIVE SKIN SOLUTION

- Skin comfort enhancer
- Skin inflammation inhibitor
- Skin barrier function booster
- Skin redness reducer



* On a selection of references

A delicate flower for sensitive skin

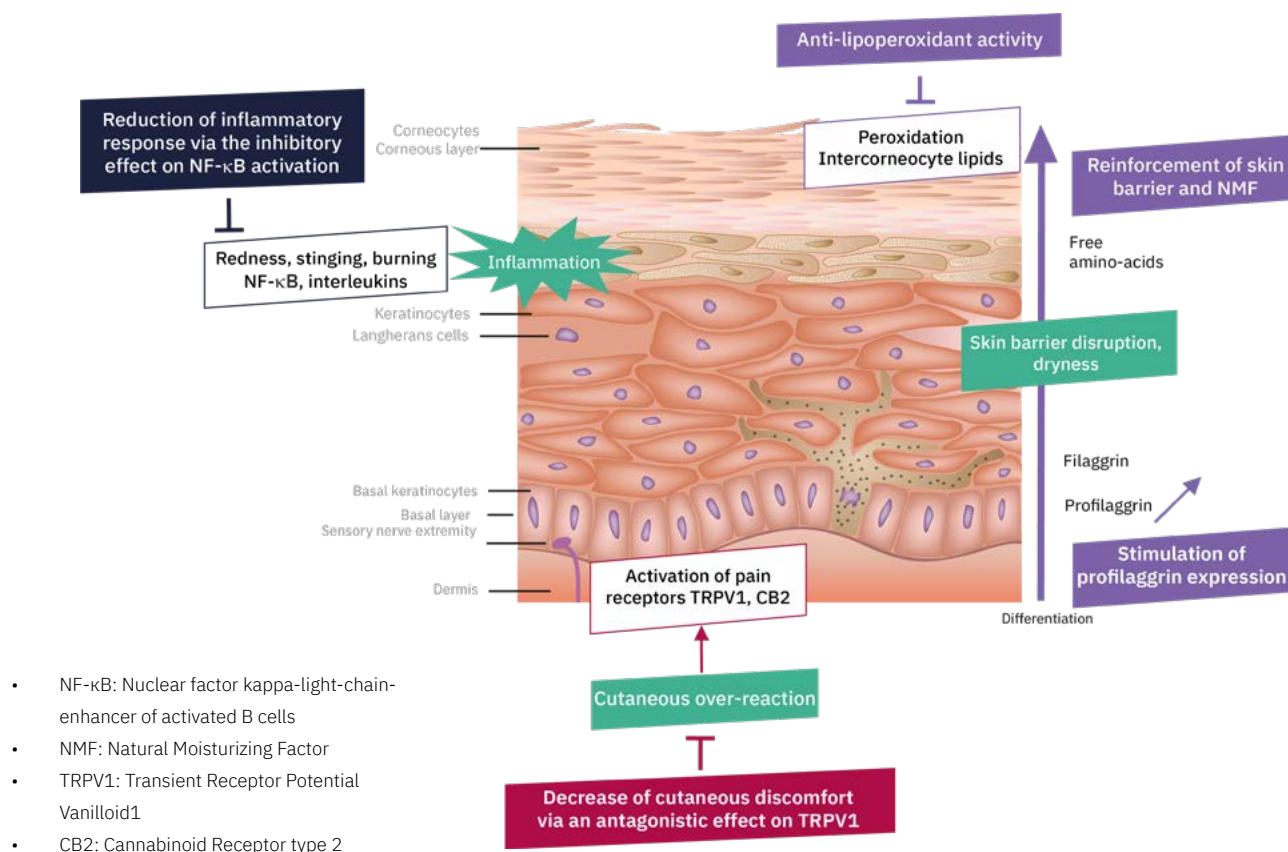


For centuries, Saffron has been used for its multiple virtues: as a precious spice, a natural dye, and for its medicinal and cosmetic benefits. Known as '**red gold**', it takes time, patience and skill to harvest this plant, *Crocus sativus*.

The ephemeral flower which blooms in Autumn has become a **symbol of purity**. If conditions are right, the flower emerges in the morning cocooned in a silky, white sheath before opening up in the sunshine. The flowers are then carefully hand-picked once the dew has evaporated but before they are fully open, in order to protect the red stigmas from the elements and to preserve the quality of the spice.

Inspired by the versatility of the plant, our experts have discovered the powerful potential of the saffron crocus flower. Committed to our CSR policy of utilizing **by-products**, once the spice has been harvested we collect the remaining flower to develop our active ingredient, **Sens'flower™**. We have set up several sourcing channels and strong partnerships with independent farmers to produce our saffron flower active ingredient. This enables us to offer several grades including an organic one. Developed specifically to care for sensitive skin, Sens'flower™ is rich in glycosilated flavonoids : Quercetin & Kaempferol which have **soothing properties**.

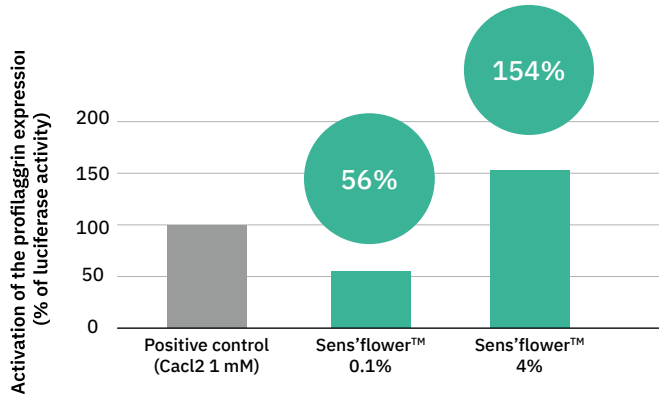
Biological Mechanism



In vitro

Mechanism of action

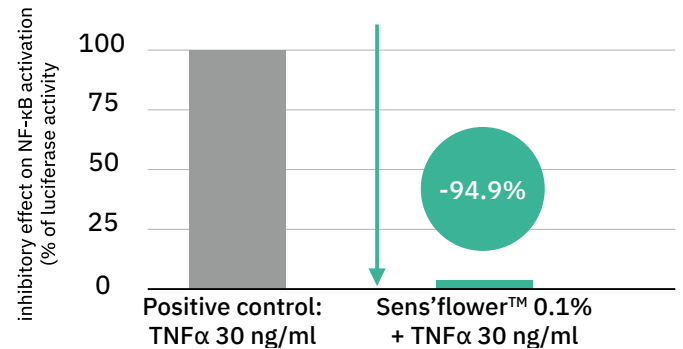
Skin barrier & NMF* are reinforced



Sens'flower™ strengthens the skin barrier as it stimulates the expression of profilaggrin (a precursor to filaggrin).

*Natural Moisturizing Factors

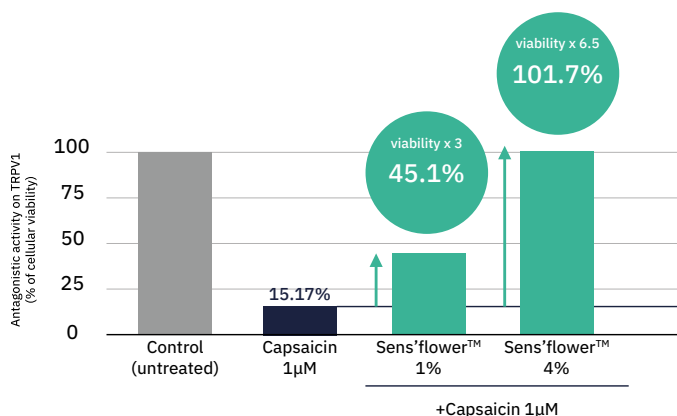
Anti-inflammatory effect



Sens'flower™ helps to reduce cutaneous discomfort by decreasing the pro-inflammatory response.

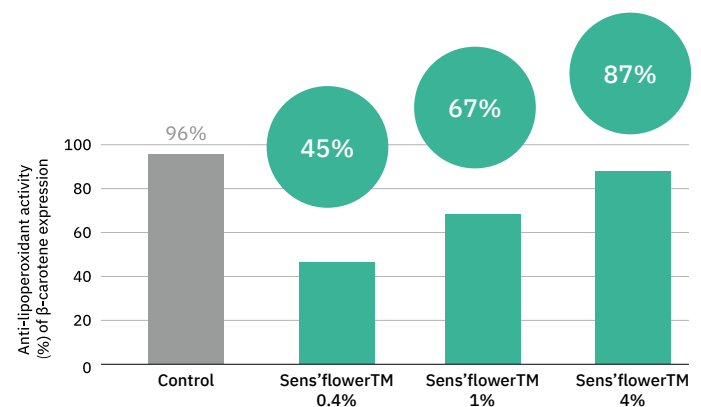
In tubo

Sensation of cutaneous discomfort is decreased



Sens'flower™ helps to counteract skin sensitivity thanks to its antagonistic effect on the TRPV1 neurosensory receptor. This helps to avoid painful and uncomfortable sensations.

The skin barrier and hydrolipidic film integrity are preserved



Sens'flower™ helps to preserve the integrity of both the skin barrier and the hydrolipidic film by improving NMF formation and protecting the skin against lipoperoxidation.

Clinical study

Skin redness reduction effect

PROTOCOL

- 20 Caucasian female volunteers
- Mean age 45 ± 8 years old
- Inclusion criteria: Having a sensitive and/or reactive skin with atopic tendencies
- Hemi-face application
- 28 day-application
- Twice a day
- Measurement at D0 and D28
- BIOMETRIC MEASUREMENTS:
- Red spots assessment with SIAscope®
- Self-assessment

D0



D28



As a soothing active ingredient, SENS'FLOWER™ significantly reduces redness and brings comfort to sensitive skin (4% Sens'flower™)

Skin redness is reduced by 8% on average and up to 16%



Product Information

Reference	Multiple grades available
INCI	AQUA, PROPANEDIOL, CROCUS SATIVUS FLOWER EXTRACT, (SODIUM BENZOATE, POTASSIUM SORBATE for preserved grades)
China IECIC 2021	Listed

Product description

Physical form	Liquid
Color	Yellow to brown clear liquid
Odor	Characteristic

Use

Recommended percentage of use	1 to 4%
Formulation	Add at the end of the formulation at 30°C

Efficacy

Biological efficacy	Protects and regenerates sensitive skin from pollution. Reduces inflammation markers such as NF-κB, enhances profilaggrin synthesis thus positively impacting the skin barrier. Reduces the sensitivity of TRPV1 receptors, thus reducing sensations of discomfort.
Clinical efficacy	Significantly reduces skin redness versus placebo at 4%.

Marketing information

Cosmos status	Certified / Approved grade(s) available
Trademark	Sens'flower™
Origin	France (plant origin: France available)

Claim suggestions

- Soothes and relieves the skin.
- Brings skin comfort and suppleness.
- Reduces redness.
- Reduces cutaneous inflammation.
- Reinforces the skin barrier function.
- Counteracts the deleterious effects of lipid peroxidation and preserves the hydrolipidic film.
- Protects ultra-reactive skin from daily aggressions.
- Reduces neuro-sensory skin discomfort.
- Prevents tingling and heating sensations.

Trend applications

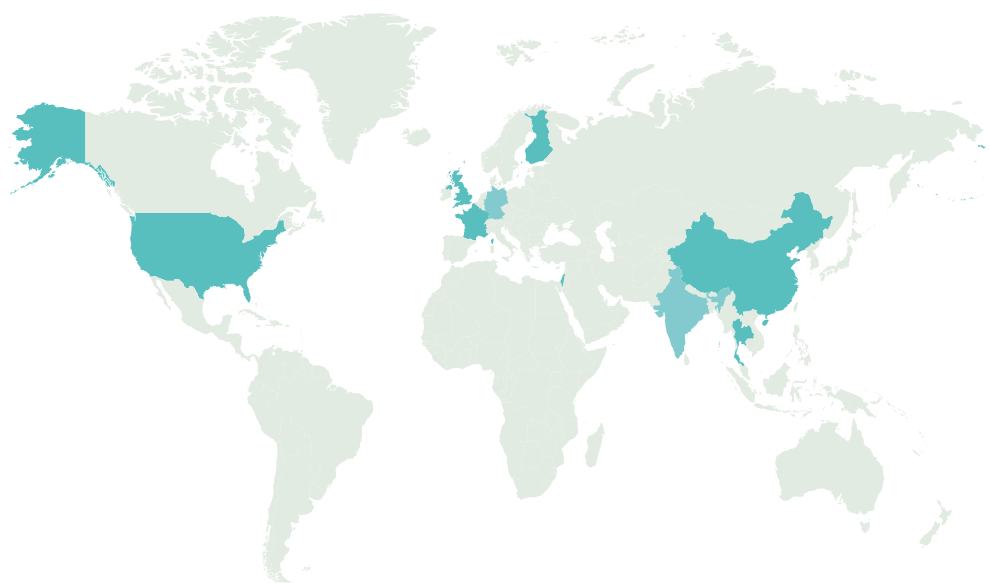
- Sensitive skin
- Premium cosmetics
- Delicate skincare
- Precious ingredients
- Urban protection skin care
- Superfood concept
- Natural and organic skincare



* On a selection of references



Seqens, an integrated global leader in pharmaceutical synthesis and specialty ingredients



3,500
people



300
scientists, experts
and engineers



9
countries



10
R&D centers

ABOUT SEQENS

SEQENS is an integrated global leader in pharmaceutical synthesis and specialty ingredients, delivering outstanding performance, unrivaled market responsiveness and bespoke solutions to our customers.

ABOUT SEQENS PERSONAL CARE

Seqens Personal Care manufacture a wide range of active ingredients and functionals for the personal care market.

Our strong pharmaceutical heritage & health expertise allows us to provide:

- Strong expertise in synthesis from simple to complex molecules
- Strict respect of quality, global compliance, and environmental regulations
- Versatile R&D and large production capacities for new development and scale up activities
- FLAGSHIP technologies (flow chemistry, multi-catalysis, fractionated distillation)

A company committed to a CSR approach for over 15 years (Gold & Platinum Ecovadis certifications)



SEQENS

OUR SCIENCE FOR YOUR FUTURE

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