

Ingredient

Sulforaphan-Smart™

Sulforaphan-Smart™ is a patented bilayer microencapsulated broccoli ingredient developed to generate sulforaphane where it gets absorbed. Sulforaphane activates Nrf2, the body's master switch for cellular defense, which turns on hundreds of protective genes.

The Problem

Sulforaphane is one of the most studied plant bioactives in nutrition science, yet most products struggle to deliver it.

It forms only when the precursor glucoraphanin meets the enzyme myrosinase, and myrosinase is easily destroyed by heat, processing, and stomach acid.

Conventional broccoli extracts and glucoraphanin-only formulas leave conversion to chance and to each person's gut microbiome.

The Solution

Sulforaphan-Smart™ keeps precursor and enzyme separated until the moment it matters.

Inner core: broccoli extract rich in glucoraphanin.

Outer shell: myrosinase protected in a stabilizing matrix.

In the stomach: the capsule stays intact. No premature reaction, no acid damage.

In the small intestine: the shell releases myrosinase next to glucoraphanin, generating sulforaphane at the primary absorption site.



Up to 7× More Sulforaphane, Same Broccoli

When both ingredients were run through a lab model of human digestion, the protected enzyme made the difference*.

Standard broccoli extract + enzyme 1x

Sulforaphan-Smart™

7x

- Human clinical trials underway in metabolic health and weight management*
- Sulforaphane is among the most published plant compounds for cellular antioxidant defense.

The GHT Companies Translating scientific discovery into business enterprise.



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What It Means For Your Formula

- Effective use levels of just 50 to 100 mg/day.
- Lower ingredient cost per effective dose
- Small dose footprint frees room in capsules and blends.
- More predictable performance across individuals.
- One ingredient supporting multiple positioning platforms.

Formulation Platforms

- Healthy aging and cellular defense.
- Antioxidant support.
- Liver and detoxification support.
- Healthy glucose metabolism within normal ranges.
- Cognitive health.

Formulation Compatibility

- Capsules.
- Tablets.
- Powders and Sachets.
- Gummies.
- Liquids, shots, gels, honey.
- Dairy and plant-based beverages.



An Upcycled Sustainability Story

Made from Ebro Valley broccoli stems, leaves, and off-grade florets that would otherwise be discarded. Supported by independent life-cycle analysis, with a lower carbon and water footprint per functional dose than crops grown for extraction.

Source

Broccoli (*Brassica oleracea* var. *italica*) byproducts.

Form

Free-flowing powder, double-layer microencapsulated.

Typical Use Level

50 to 100 mg/day, depending on format and target output.

Storage

Cool, dry conditions; protect from heat and moisture.

Stability

Maintains enzyme activity & capsule integrity under proper storage; tolerates typical processing conditions.

Intellectual Property/Patent

EP 3 123 874 A1

Country of Origin

Spain

*Request Technical Dossier

Clinical Studies Available Under NDA.