

# OCEANICARE™ SC-23P Immune Balance & Inflammation Support

Powered by Marine Bioactives from *Cucumaria frondosa* — a scientifically studied sea cucumber harvested from the wild North Atlantic.

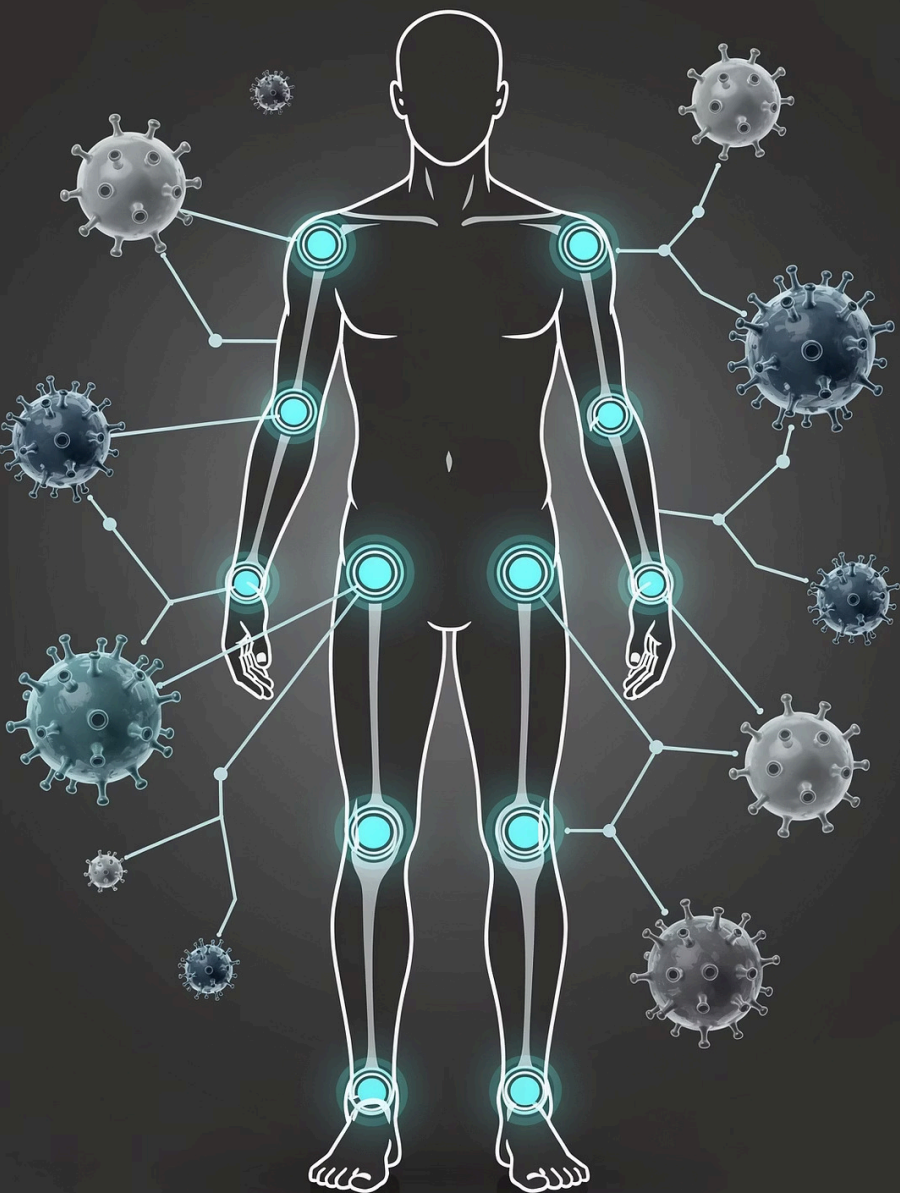
**Because true wellness begins when your body is in balance — not fighting itself.**

✓ Immune Balance

✓ Healthy Inflammation  
Response

✓ Joint Comfort & Recovery





# What Is Immune-Driven Inflammation?

Your immune system is your body's most sophisticated defense network — continuously monitoring, responding, and adapting to threats. But sometimes, it stays active **longer than needed**, generating ongoing inflammation that can quietly undermine your daily comfort and long-term wellbeing.

## When Immune Activity Lingers...

- Joint stiffness and discomfort
- Digestive imbalance and sensitivity
- Skin irritation and redness
- Fatigue and slower recovery

## The Real Goal

The answer is **not** to suppress your immune system — that would leave you vulnerable. The goal is to **help it self-regulate**: responding fully when needed, and standing down when the threat has passed. This is the foundation of true immune balance.

# The OCEANICURE™ Approach

CALM · BALANCE · RECOVER

OCEANICURE™ delivers a **multi-pathway marine bioactive system** — drawing on the rich biochemistry of deep North Atlantic sea cucumbers to address immune-driven inflammation at its source, not just its symptoms.



## Calm

Reduces excessive immune signaling by modulating the pathways that drive prolonged inflammatory responses, helping the body find its natural resting state.



## Balance

Supports healthy, proportionate immune activity so your defenses remain fully functional — neither overactive nor suppressed — for whole-body equilibrium.



## Recover

Promotes natural tissue repair and cellular restoration, helping your body bounce back more efficiently after physical stress, exertion, or immune challenge.

# Sourced from the Sea: Key Bioactives

*Cucumaria frondosa*, a wild-harvested North Atlantic sea cucumber, contains a remarkable array of marine compounds — each targeting a distinct dimension of immune balance and inflammation support. Together, they form a synergistic bioactive system unlike anything found on land.

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## Marine Chondroitin Complex (FCS)

Joint protection and healthy inflammatory signaling

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## Frondoside A

Cellular regulation and balanced immune activity

03

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## Marine Polysaccharides

Natural immune defense support and balance

04

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## Omega-3 Marine Lipids (EPA-Rich)

Inflammation resolution and joint comfort

05

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## Marine Peptides & Collagen Support

Tissue repair and joint flexibility

06

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## Natural Antioxidants

Cellular protection and oxidative stress reduction

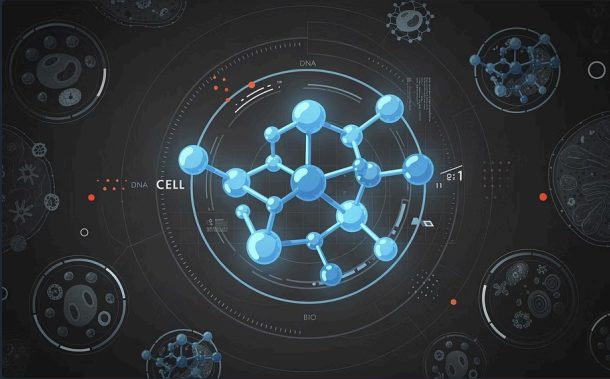
# Marine Chondroitin Complex (FCS)

JOINT PROTECTION & INFLAMMATION BALANCE

The **Fondosan Chondroitin Sulfate (FCS)** derived from *Cucumaria frondosa* is structurally distinct from terrestrial chondroitin sources. Its unique sulfation patterns allow it to interact more precisely with inflammation-signaling pathways, particularly those governing joint and connective tissue health.

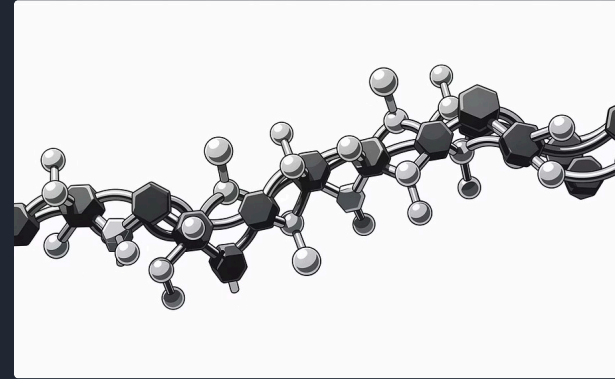
- Supports healthy inflammatory signaling within joint tissues
- Helps protect cartilage integrity under physical stress
- Promotes smoother, more comfortable movement
- May support long-term joint structural health

# Frondoside A & Marine Polysaccharides



## Frondoside A

**Cellular & Immune Regulation.** A triterpenoid glycoside unique to sea cucumbers, Frondoside A has been the subject of significant scientific interest. It supports **balanced immune cell activity**, helps regulate the body's inflammatory response pathways, and promotes whole-body equilibrium – without impairing the immune system's essential protective functions.



## Marine Polysaccharides

**Immune System Support.** These complex carbohydrate chains – including fucoidan-like compounds – act as intelligent immune modulators. They help maintain immune balance by **reducing unnecessary activation**, supporting the body's natural defense function, and guiding the immune system toward a more measured, calibrated response.

# Omega-3 Lipids, Peptides & Antioxidants

## Omega-3 Marine Lipids (EPA-Rich)

**Inflammation Resolution.** EPA — eicosapentaenoic acid — is a well-studied marine omega-3 that plays a critical role in the **resolution phase** of inflammation. Rather than simply blocking inflammatory signals, EPA helps the body actively "cool down" and complete the inflammatory process, supporting joint comfort and faster recovery after physical stress or exertion.

## Marine Peptides & Collagen Support

**Recovery & Repair.** Short-chain marine peptides derived from sea cucumber collagen support **tissue repair at the cellular level**. They maintain joint flexibility, promote the regeneration of connective tissue, and work synergistically across all other bioactive systems — amplifying the overall restorative effect of the OCEANICURE™ formula.

## Natural Antioxidants

**Cellular Protection.** Chronic inflammation and oxidative stress form a self-reinforcing cycle. OCEANICURE™'s marine-derived antioxidants help **interrupt this cycle** by neutralizing free radicals, reducing oxidative burden on cells, and building long-term cellular resilience — protecting tissues throughout the inflammation resolution process.

# How OCEANICURE™ Works

OCEANICURE™ addresses immune-driven inflammation along a clear, logical pathway — from the initial trigger through to full recovery and restored balance.



Unlike single-ingredient supplements, OCEANICURE™ targets **multiple steps** in this pathway simultaneously — addressing both the signaling that drives inflammation and the recovery processes that restore balance — for a more complete and lasting effect.

# What You May Notice

With consistent use, OCEANICURE™ is designed to support meaningful, whole-body improvements that you can feel — grounded in the science of marine bioactives working synergistically across multiple systems.



## Improved Joint Comfort

Reduced stiffness and greater ease of movement day to day



## Better Mobility

Support for range of motion and physical freedom



## Balanced Immune Support

A more measured, regulated immune response



## Faster Recovery

Bounce back more efficiently after stress or exertion



## Overall Wellness

Whole-body balance supporting long-term vitality

# Premium Marine Quality

WILD-CAUGHT · BIOACTIVE INTEGRITY · STRICT STANDARDS

## Uncompromising Standards from Sea to Supplement

Quality is not an afterthought at PRIMARY NUTRITION™ — it is the foundation. OCEANICURE™ is built on a commitment to sourcing and processing that preserves the full power of its marine bioactives at every step.

- **Wild-caught** North Atlantic *Cucumaria frondosa* — sustainably harvested from pristine cold waters
- **Carefully processed** to protect bioactive integrity and potency throughout manufacturing
- **Produced under strict quality standards**, with rigorous testing to ensure purity, consistency, and safety

# Return to Balance

# Better health isn't about shutting your body down.

**It's about helping it return to balance.** OCEANICURE™ was created with a single guiding conviction: that the body already knows how to heal — it simply needs the right support. By working with your biology rather than against it, OCEANICURE™ helps restore the equilibrium your immune system is always striving for.

**Compliance:** These statements have not been evaluated by the US Food & Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.



## *Oceanicare SP-23P | Marine-Derived Science, Backed by Nature*

### ***Bibliography***

#### Sulfated Polysaccharides (FCS) — Macrophage Modulation

Author: M.M. Stefaniak-Vidarsson Title: Bioactive effects of sulfated polysaccharides from *Cucumaria frondosa* Journal/Year: Bioactive Carbohydrates & Dietary Fibre (2017)

#### Key Findings:

Modulates macrophage inflammatory response Reduces pro-inflammatory signaling in immune cells Highlights Fucosylated Chondroitin Sulfate (FCS) as key active

👉 Important for immune-driven inflammation regulation

#### 1. Fucosylated Chondroitin Sulfate — In Vivo Inflammation Model

Author: N.E. Ustyuzhanina Title: Structure and anti-inflammatory activity of fucosylated chondroitin sulfate Journal/Year: Carbohydrate Polymers (2018)

#### Key Findings:

Mechanism linked to sulfated fucose branches

👉 Demonstrates enhanced anti-inflammatory potency vs conventional CS

#### 1. Sea Cucumber Bioactives — Cytokine Gene Suppression

Author: M. Jahani Title: Antioxidative and regenerative potential of sea cucumber compounds Journal/Year: 2025

#### Key Findings:

Downregulates TNF- $\alpha$ , IL-1 $\beta$ , IL-6, NF- $\kappa$ B, MCP-1 Upregulates anti-inflammatory regulators (SOCS-3, I $\kappa$ B) Suggests epigenetic / gene-expression level control

👉 Shows deep molecular regulation of inflammation pathways

#### 1. Frondoside A — Signaling Pathway Modulation

Author: O.F. Fagbohun Title: Frondoside A of *Cucumaria frondosa*: molecular mechanisms Journal/Year: 2025

#### Key Findings:

Regulates major inflammatory pathways: NF- $\kappa$ B MAPK / ERK / JNK PI3K/AKT Broad control of inflammatory and immune signaling

👉 Positions Frondoside A as a multi-target inflammatory regulator

#### 🧬 Mechanistic Summary (Clinician-Ready)

Across these studies, *Cucumaria frondosa* bioactives consistently act through:

1. Cytokine Suppression ↓ TNF- $\alpha$ , IL-1 $\beta$ , IL-6 ↓ inflammatory mediators (NO, PGE2)
2. Pathway Regulation NF- $\kappa$ B (central inflammation switch) MAPK / JNK / ERK PI3K/AKT signaling
3. Immune Modulation Macrophage response regulation Reduced neutrophil infiltration Balanced immune signaling
4. Structural Advantage (FCS) Sulfated + fucosylated structure → higher bioactivity vs standard chondroitin ✓ Clean Scientific Positioning Statement