

Optima™

BoneActive

Food For Special Dietary Use



400g Tin Can

Bone & Joint

Cardiac Support

ICU Nutrition

Features, Advantages & Benefits

❖ Key Features

High Bioavailable Calcium

536mg calcium per 100g (70% DV) with optimal calcium-to-phosphorus ratio for superior absorption.

Collagen Type II

Contains collagen to support joint health, cartilage integrity, and flexibility.

Complete Mineral Matrix

Magnesium (140% DV), Zinc, and Manganese for complete bone metabolism support.

Vitamin D3 Enhanced

13mcg Vitamin D (50% DV) for optimal calcium absorption and bone remodeling.

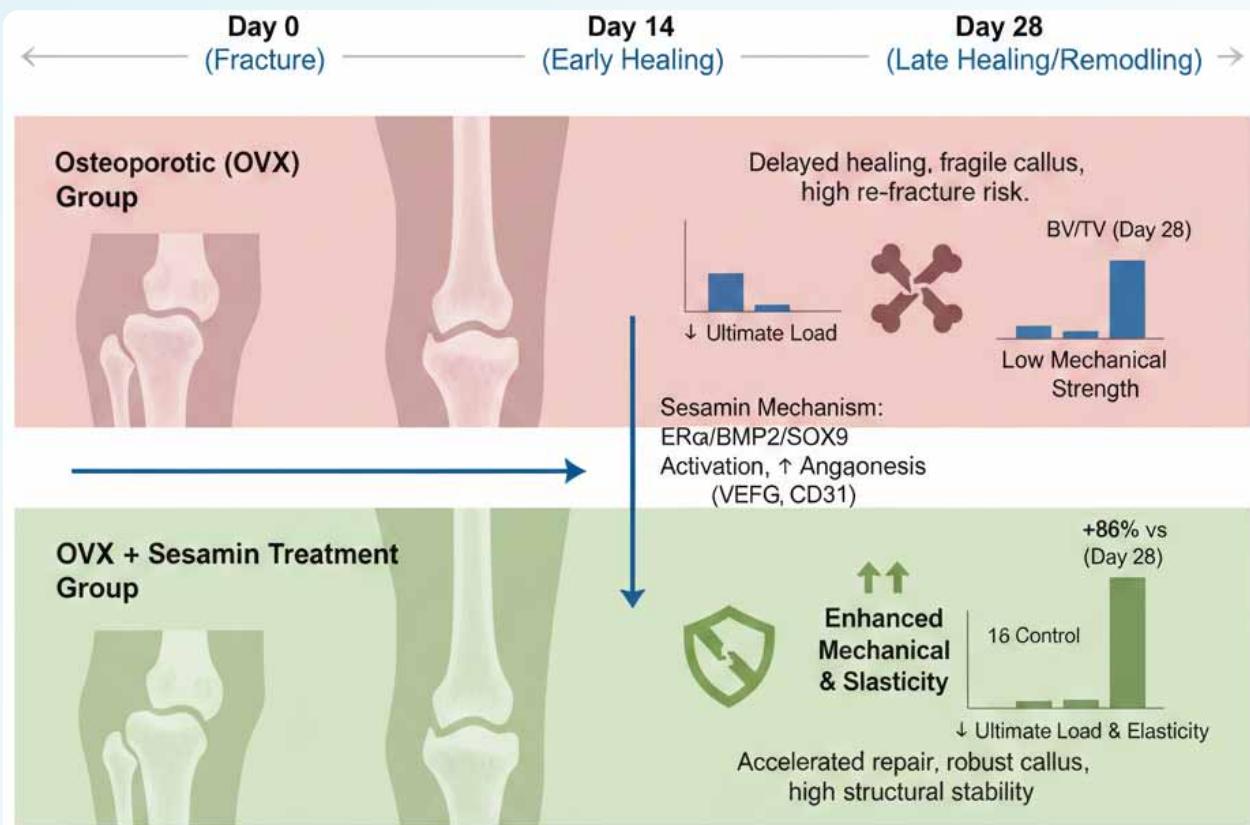
⌚ Indications for Use

- ✓ **Osteoporosis & Bone Loss** - Enhanced calcium and mineral content for bone density
- ✓ **Osteoarthritis & Joint Disorders** - Collagen Type II for joint support and mobility
- ✓ **Post-Surgery & Fracture Recovery** - Accelerated bone healing and strength
- ✓ **Athletes & Active Lifestyle** - Support for joint mobility and flexibility

≡ Key Nutritional Facts (Per 100g)

Nutrient	Amount	% DV	Nutrient	Amount	% DV
Calories	450	-	Dietary Fiber	22g	79%
Total Fat	17g	22%	Vitamin D	13mcg	50%
Protein	22g	44%	Calcium	536mg	70%
Total Carbs	52g	19%	Magnesium	367mg	140%

Clinical Evidence & Research



Clinical Study Summary: Sesamin Promotes Osteoporotic Fracture Healing

Study Overview: This study investigates sesamin, a natural phytoestrogen derived from sesame, as a safer alternative to estrogen replacement therapy for promoting fracture healing in postmenopausal osteoporosis. Traditional treatments often carry risks of serious side effects.

Mechanism: Sesamin acts as a ligand for estrogen receptor alpha (ER α), forming a hydrogen bond with residue ARG346. This activates the bone morphogenetic protein 2 (BMP2) signaling pathway, critical for bone and cartilage development.

Key Findings: Sesamin significantly enhanced angiogenesis (blood vessel formation) by upregulating VEGF and Mmp2 markers. It promoted chondrogenesis (cartilage development) and increased proteoglycan synthesis. In ovariectomized mice, oral sesamin (80 mg/kg/day) improved callus formation, bone reconnection, narrower fracture gaps, and better mechanical strength.

Conclusion: Sesamin facilitates osteoporotic fracture healing by stimulating both chondrogenesis and angiogenesis through the ER α /BMP2/SOX9 pathway, making it a promising herb-derived bioactive compound for treating fractures in postmenopausal women.

Reference: *Nutrients* 2022, 14, 2106 | DOI: 10.3390/nu14102106

Ready to Experience Optima BoneActive?

Request a free sample today and discover how Optima BoneActive can support your patients' bone and joint health.

Request a Sample



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Product Information

FORMAT	FLAVOR	PRODUCT CODE
400g Tin Can	Natural	0788792139817
SERVINGS	SERVING SIZE	UNITS/CARTON
10 per Container	40g (5-6 tsp)	4



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This product is not intended to diagnose, treat, cure, or prevent any disease.