Flexibility Is the Key to Strong Bones
The Proven Results of KoACT

KoACT was awarded three US patents for its unique composition and its application in improving bone mineral density and bone strength. KoACT is well researched by health experts and early studies are already showing benefits.

The difference between traditional calcium supplements and KoACT®

Patented KoACT, a calcium collagen chelate, helps build denser more flexible bones. Other bone supplements only address calcium and vitamin D deficiency. These traditional calcium supplements for bone health focus on bone mineral density without improving bone flexibility. In fact, too much calcium can have adverse effects. The molecularly-bonded combination of calcium and collagen in KoACT improves density and flexibility creating stronger bones.

The solution is KoACT

Calcium builds bone density but collagen holds connective tissue together. Collagen is essential to improving bone flexibility which helps bones absorb impact. Without it, running, jumping and other activities become painful and even the strongest bones can crack, shatter or break.

Although the body produces collagen naturally, its production diminishes as we age. The advanced formula in KoACT combines calcium and collagen through a unique process that models natural bone structure. The result is easier and more direct absorption of both calcium and collagen into the bones creating superior bone strength.

Approximately 25% of postmenopausal Caucasian women in the US have osteoporosis.

Mounting evidence shows that for some women, taking bisphosphonates for more than five years can result in spontaneous fractures.

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.
**Lead Researcher**

Dr. Bahram H. Arjmandi is currently Chair and Margaret A. Sitton Professor at the Department of Nutrition, Food & Exercise Sciences, College of Human Sciences, Florida State University, Tallahassee, Florida. Dr. Arjmandi has approximately 100 published articles in a wide array of respected nutritional journals and hundreds of abstracts credited to his name.

**Human Research**

In a Florida State University human study, KoACT® was shown to increase bone mineral density in total body DXA scans after three months of intake. The results were significantly better compared to the calcium supplement.

After three months, when total body bone mineral density (BMD) was analyzed, the control group showed an average 1.2% decline from baseline, while the KoACT group showed an average 1.0% baseline increase. The difference between these two groups was highly significant with a p value of 0.021 from baseline (Fig. 1).

**Animal Research**

In a Tokyo University of Agriculture and Technology animal study testing bone strength and bone mineral density, KoACT showed significantly better results than calcium or even a simple mixture of calcium and collagen.

In an 8-week ovariectomized (ovx) rat study, two different KoACT levels were compared to hydrolyzed collagen (HC) with the control group being calcium (Control Ca).

After 8 weeks, BMD increased approximately 3.5% with KoACT (Fig. 3) over the calcium Control Ca group. Most notably, KoACT increased femur bone strength almost 10% over the Control Ca control group. The result, KoACT not only provides calcium support, but more importantly, provides the bone matrix support of calcium collagen chelate, critical for bone strength (Fig. 4).

**Human Study — BMD**

Effect of KoACT on Bone Mineral Density After Three Months of Intake

- KoACT group showed an average 1% baseline increase.
- Control Ca group showed a 1.2% decline from baseline.

**Human Study — Total Body T-Score**

Effect of KoACT on Total Body T-Score After Three Months of Intake

- KoACT group showed a 0.9% increase from baseline.
- Control Ca group showed a 1.2% decline from baseline.

**Animal Study — BMD**

Effect of KoACT on Bone Mineral Density After 8 Weeks of Intake

- KoACT group showed a 3.5% increase.
- Control Ca group showed a 1% decrease.

**Animal Study — Bone Strength**

Effect of KoACT on Bone Strength After 8 Weeks of Intake

- KoACT group showed a 10% increase in femur bone strength.
- Control Ca group showed a 0% increase.

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KoACT for better bones and better products

Here are some of the benefits of incorporating KoACT into your product or beverage:

- Increases bone density and flexibility
- Self-Affirmed GRAS
- Triple-patented formula
- Available exclusively from AIDP