



# 7-Keto®

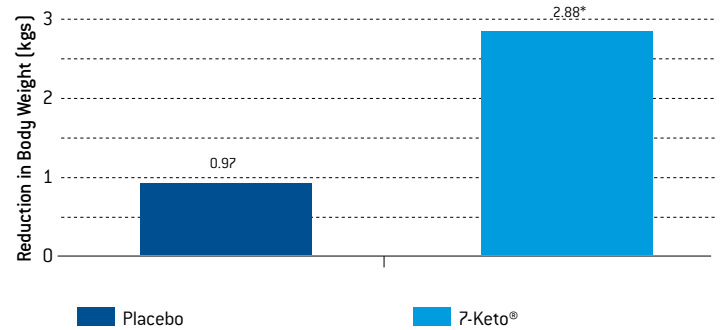
## Supports Healthy Weight



7-Keto® is the brand name for 7-oxo-dehydroepiandrosterone acetate, which is a natural metabolite of DHEA.

- Safely maintains metabolic rate when dieting
- Two successful NDI's filed with the FDA
- Well tolerated
- Clinically studied
- Non-Stimulant

Reduction in Body Weight After 8 Weeks

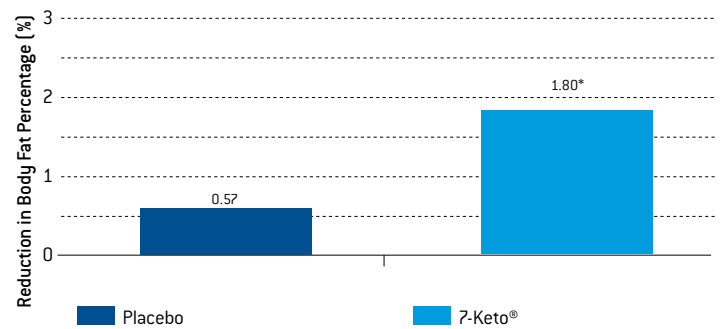


\*p=.01 compared to placebo

Graph 1

Kalman DS, et al. *Curr Ther Res.* 2000;61:435-442.

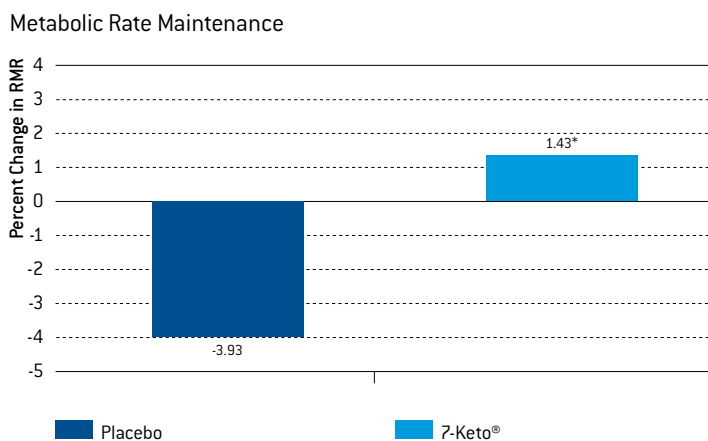
Reduction in Body Fat Percentage After 8 Weeks



\*p=.02 compared to placebo

Graph 2

Kalman DS, et al. *Curr Ther Res.* 2000;61:435-442.



Graph 3

Zenk JL, et al. *J Nutr Biochem.* 2007;18:629-634.

1.) Supplementation of 7-Keto® DHEA for 8 weeks in combination with 60 minutes cross-training three times per week and a 1800 kcal/day diet resulted in a statistically significant decrease in body weight and body fat, in overweight and obese adults.<sup>1</sup>

2.) Consumption of 7-Keto® DHEA for 7 days in overweight and obese middle-aged subjects on a calorie-restricted diet resulted in an increase in resting metabolic rate, which normally decreases during dieting.<sup>2</sup>

3.) 7-Keto® DHEA was found to effectively induce thermogenic enzymes in rats.<sup>3,4</sup>

4.) 7-Keto® DHEA is reported to not activate the androgen receptor<sup>5</sup>, and is not convertible to androgens.<sup>4</sup>

5.) Awarded U.S. Patent For Metabolic Rate Modulation While Dieting. United States Patent Number 7,199,116.

6.) Well tolerated up to 200 mg per day.<sup>1,2,6</sup>

7.) Effective at 200 mg per day.<sup>1,2</sup>

## References:

1. Kalman DS, et al. A randomized, double-blind, placebo-controlled study of 3-acetyl-7-oxodehydroepiandrosterone in healthy overweight adults. *Curr Ther Res.* 2000;61:435-442.
2. Zenk JL, et al. HUM5007, a novel combination of thermogenic compounds, and 3-acetyl-7-oxo dehydroepiandrosterone: each increases the resting metabolic rate of overweight adults. *J Nutr Biochem.* 2007;18:629-634.
3. Lardy H, et al. Ergosteroids II: Biologically active metabolites and synthetic derivatives of dehydroepiandrosterone. *Steroids.* 1998;63:158-165.

4. Lardy H, et al. Ergosteroids: Induction of thermogenic enzymes in liver of rats treated with steroids derived from dehydroepiandrosterone. *Proc Natl Acad Sci USA.* 1995;92:6617-6619.

5. Miyamoto H, et al. D5-Androstenediol is a natural hormone with androgenic activity in human prostate cancer cells. *Proc Natl Acad Sci USA.* 1998;95:11083-11088.

6. Davidson M, et al. Safety and pharmacokinetic study with escalating doses of 3-acetyl-7-oxodehydroepiandrosterone in healthy male volunteers. *Clin Invest Med.* 2000;23:300-310.

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