

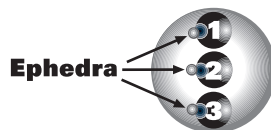
Are You
POWERED BY
ECLIPSE
SPORT SUPPLEMENTS

THERMOGENIX™

Without a doubt the most complete fat burning formula ever developed!

This formula has compiled almost every truly effective compound associated with fatty acid metabolism. The process of burning fat for fuel entails a complex myriad of metabolic functions. In order to understand how Thermogenix works, we need to briefly explain this process of lipolysis. The body produces catecholamines that bind to beta 1-2 & 3 receptors. This activates adenylyl cyclase, which in turn produces C-Amp and hormone sensitive lipase (HSL). HSL then breaks down stored triglycerides into fatty acids that are released into the blood stream to be used for energy or fuel.¹

The first generation fat burners utilized ephedrine and caffeine to produce catecholamines.² Due to regulatory concerns, the supplement industry is now turning to the 2nd generation fat burner: Synephrine. Synephrine is an adrenergic agonist, which binds to beta 3 and alpha 1 receptors.⁴ The beta 3 receptors are responsible for metabolic rate, while alpha 1 may cause constriction of smooth muscle. Ephedrine is a non-specific adrenergic agonist, which binds to beta 1-2 & 3 receptors.⁵ Beta 1 & 2 receptors regulate heart rate and blood pressure. This is why people experience central nervous system stimulation. Synephrine burns the same amount of fat, spares muscle and suppresses appetite identical to ephedrine but with no stimulant like side effects. The body has what is called a feedback inhibition mechanism. This is a natural safety defense that tells the body to stop losing weight. One action of this mechanism is prostaglandin formation. Prostaglandins can shut down the fat burning process. The white willow bark provides the body with an aspirin analog which can inhibit prostaglandin formation. Another feedback inhibition mechanism is the production of phosphodiesterase. This compound blunts the formation of C-amp, which is required for lipolysis. Caffeine has been shown to inhibit phosphodiesterase. Yohimbine is an alpha-2-antagonist. This refers to the alpha-receptors, which are primarily found in the lower body and can regulate the amount fat released from these areas. Yohimbine blocks the alpha-2 receptor while synephrine and caffeine turn on the fat burning process thus allowing more fat to be released from these stubborn lower body areas. L-tyrosine may enhance synephrine due to the fact that it converts to noradrenaline thus prolonging supplement effectiveness. Cayenne powder may have the ability to increase metabolic rate, which adds



- Beta 1 receptor Responsible for heart rate actions
- Beta 2 receptor Responsible for blood pressure
- Beta 3 receptor Responsible for thermogenesis

Ephedra and Citrus Aurantium ignite lipolysis (fat burning) in the same way, by releasing catecholamines to activate beta 3 receptors. Ephedra also activates beta 1 and 2 receptors which raises heart rate and blood pressure. Citrus Aurantium burns fat without the jittery, rush like side effect that ephedra has.

Synephrine stimulates thermogenesis and lipolysis through Beta 3 receptors without affecting heart rate or blood pressure!

to the overall breakdown of fatty acids for fuel. The final ingredient is grapefruit extract containing naringenin and quercetin. Naringenin is also known for its thermogenic effects while quercetin has been found to slow the breakdown of compounds in the liver.⁶ This slowing down process may cause the ingredients to stay active longer in the body. The best way to take this formula is 3 caps 3 times per day about a half an hour before a meal. This dosing pattern may ensure that the synephrine has enough time to enter circulation and increase the caloric expenditure of the meal. Overall, this formula has taken into account the various aspects that regulate fatty acid metabolism. As expected Eclipse is leading the way with its 2nd generation thermogenic formula and plans to continually be at the forefront of physique enhancement.

References

1. Berning, J. R. and Steen N.S. 1991 "Sport Nutrition for the 90's" Aspen Publishing. Ch 2, p. 15-27.
2. Toubros, et al. 1993. The Acute and Chronic effect of ephedrine/Caffeine mixtures on energy expenditure and Glucose Metabolism in humans. Int J Obes Relate Metab Disord, Dec. 17, suppl.; S73-S77.
4. Song DK, et al. 1996 "Antidepressant like effect of P-Synephrine in mouse models of immobility tests". Neurosci Lett. Aug 23; 214 (2-3): p. 107-110.
5. Astrup A. 1995. Pharmacological and clinical studies of ephedrine and other thermogenic agents. Ober Res. Nov. 3 suppl 4: 537S- 540S.
6. Fohr, et al. 1993. British Journal of clinical Pharmacology Apr. 35 (4): p. 431-436.

Supplement Facts	
Serving Size 3 capsules	
Servings per container 90	
Amount per capsule	%Daily Value
L-Tyrosine (as L-tyrosine hydrochloride)	1000 mg *
Yohimbe Extract (powdered bark) (standardized for 2% Yohimbine)	500 mg *
White Willow Bark (powdered bark) (standardized for 15% Salicin)	500 mg *
Citrus Aurantium (standardized for 4% synephrine)	325 mg *
Caffeine	150 mg *
Cayenne Powder (powdered root)	60 mg *
* Daily Value not established.	

Other Ingredients: Grapefruit powder extract, naringenin, and quercetin.