



SYNTROPIN 10IU - HGH (Human Grow Hormone)



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News

2008-06-17

[Anabolic Steroid Dianabol Turns 50](#)

The performance-enhancing drug Dianabol, which became the first widely used anabolic steroid and has built muscle for athletes and bodybuilders and become the subject of criminal prosecutions, was developed in 1958. There's a good piece in the New York Daily News looking at half a century of the steroid's use:

2008-06-27

[The sport of bodybuilding](#)

The sport of bodybuilding The popular, growing sport of bodybuilding in the region is leading to bigger championships for local enthusiasts. Dana Ali, 31, who recently returned to Kurdistan from Britain, started lifting weights six year ago when he was abroad. "Oh, I became many pounds overweight," he said, taking a break after finishing the first set. "I see so many [overweight people] here, and I don't want to be like

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Human Growth Hormone (somatotropin - also referred to as HGH, or GH) is created by somatotropes in the pituitary gland of the human brain, the primary form consisting of a 191 amino acid chain. Somatotropes make up more than 50% of the pituitary gland and growth hormone is by far the most important hormone produced there. By the age of 60 most people will have approximately 80% less growth hormone in their system than when they were 20. When we are young, HGH is in big part responsible for the proper growth of bones, muscle, and other tissues. As we become adults, HGH is responsible for keeping muscles from wasting away, supports healthy immune system response, regulates aspects of our metabolic function dealing with increased fat metabolism and healthy body composition in later life, and maintains and repairs our skin and other tissues. HGH, or GH in short, is certainly an effective fat burner and anabolic agent, and is a protein secreted by the pituitary. Once secreted, it has the ability to influence various cells in the body to increase in number and size, as well as having the ability to enhance the movement of amino acids through cell membranes- thereby increasing the rate at which the cells can convert those molecules to usable proteins. It also causes cells to preferentially burn fat in lieu of carbohydrates.

rHGH

rHGH is a human growth hormone produced by recombinant DNA technology derived from engineering Escherichia coli (E. coli), and is identical to the natural growth hormone in amino acid sequence and three-dimension structure. It has a molecular weight of 22,125 daltons of which 191 amino acid sequence and structure are identical to the dominant form of the human pituitary growth hormone.

Effects

HGH has two distinct types of effects:

Direct effects are the result of growth hormone binding its receptor on target cells. Fat cells (adipocytes), for example, have growth hormone receptors, and growth hormone stimulates them to break down triglyceride and suppresses their ability to take up and accumulate circulating lipids.

Indirect effects are mediated primarily by an insulin-like growth factor-1 (IGF-1), a hormone that is secreted from the liver and other tissues in response to growth hormone. A majority of the growth promoting effects of growth hormone is actually due to IGF-1 acting on its target cells.

Effects on Growth

Growth is a very complex process, and requires the coordinated action of several hormones. The major role of growth hormone in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. IGF-1 stimulates proliferation of chondrocytes (cartilage cells), resulting in bone growth. Growth hormone does seem to have a direct effect on bone growth in stimulating differentiation of chondrocytes.

IGF-1 also appears to be the key player in muscle growth. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

Metabolic Effects

Growth hormone has important effects on protein, lipid and carbohydrate metabolism. In some cases, a direct effect of growth hormone has been clearly demonstrated, in others, IGF-1 is thought to be the critical mediator, and some cases it appears that both direct and indirect effects are at play.

Protein metabolism: In general, growth hormone stimulates protein anabolism in many tissues. This effect reflects increased amino acid uptake, increased protein synthesis and decreased oxidation of proteins.

Fat metabolism: Growth hormone enhances the utilization of fat by stimulating triglyceride breakdown and oxidation in adipocytes.

Carbohydrate metabolism: Growth hormone is one of a battery of hormones that serves to maintain blood glucose within a normal range. Growth hormone is often said to have anti-insulin activity, because it suppresses the abilities of insulin to stimulate uptake of glucose in peripheral tissues and enhance glucose synthesis in the liver. Somewhat paradoxically, administration of growth hormone stimulates insulin secretion, leading to hyperinsulinemia.

HGH has been the supplement of choice for many professional athletes over the years. American football great, Lyle Alzado, claimed that 80% of all professional American football players, including himself, have taken HGH. HGH has amazing age-reversing effects that make it possibly the strongest anabolic substance available. Some of the benefits associated with HGH supplementation include the reversal of common diseases associated with aging, improved brain activity and function, it strengthens connective tissue which reduces the probability of injury, incredible weight loss without any loss in lean mass, reduces wrinkles by rejuvenating the skin, it raises energy levels and brightens mood, promotes muscle growth, improves libido, improves functions of the lungs which increases the level of oxygen in the blood stream, provides immune system support and Thymus function, and probably the most impressive characteristic is, its ability to produce more muscle cells, something no steroid can do.

them. "I feel better and forget about all my problems when I come in and exercise," said Ali, having arrived straight from work wearing a black T-shirt and leather gloves. He works out five times a week and has shed most of his body fat; his chest and biceps are as thick as they were when he was living in Britain.

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