**GHRP-6 Peptide**

**DESCRIPTION**
Growth Hormone Releasing Peptide-6 (GHRP-6) is a synthetic hexapeptide which stimulates the release of Growth Hormone. It accomplishes this by two totally separate mechanisms. On the one hand, it amplifies your body's natural Growth Hormone Releasing Hormone (GHRH) signal transduction pathway, and on the other hand, acts as a functional antagonist of the hormone which causes inhibition of GH secretion (somatostatin) (1-3).

GHRP-6 also has the benefit of being able to directly stimulate the anterior pituitary gland, resulting in increased GH release. GHRP-6 induced GH secretion occurs by several mechanisms. Most importantly, those mechanisms are the induction of GHRH release from the hypothalamus, stimulation of GH release from somatotrophs, joint actions of GHRH and antagonism of somatostatin, and finally by pronounced antagonism of somatostatin action on somatotrophs (1-4). However, it bears clarification that GHRP-6 is not dependant on the GHRH pathway. It can boost growth hormone levels without needing to elevate GHRH. This is important because if that pathway has been inhibited by long term GH use, GHRP-6 can still get the body producing and releasing GH.

Additionally, this peptide can also act on the central nervous system, which can provide added benefits in neuroprotection as well as muscular strength increases for the user. Much of the strength increases we see with Anabolic Steroids in the Dihydrotestosterone family are suspected to be through a similar stimulation of the Central Nervous System. Athletes using GHRP-6 typically experience strength levels increasing within the first week of use.

Increases in Growth Hormone levels in the body are typically accompanied by strength increases, muscle hypertrophy (growth), and lipolysis (fat loss). Other results experienced with increased GH levels in general are recuperative effects on joints and injuries; connective tissue strengthening and bone mineral density improvements are commonplace. Enhanced GH secretion also leads to the liver secreting more IGF-1 (Insulin-Like Growth Factor 1), which is thought to be the primary anabolic mechanism of action for Growth Hormone.

**FUNCTIONS**
Since GHRP-6 acts directly on the feedback loop which signals the inhibition of GH release, it has been used to recover natural GH production by inhibiting somatostatin action. Immediately following either synthetic GH or IGF-1 cycles, it has also been used concurrently with those compounds to negate some of the effects of those compounds on natural GH production. Most people who use IGF are unaware that IGF is part of the hormonal cascade that GH initiates, it is also part of the Negative feedback loop for it.

GHRP-6 causes stimulation of the anterior pituitary gland which ultimately causes an increase in GH release. Since GHRP-6 acts directly on the feedback loop which signals the inhibition of GH release, when natural GH secretion has been inhibited by long term synthetic use. GHRP-6 also affects the central nervous system, by protecting neurons as well as increasing strength in a way very similar to the way certain steroids in the Dihydrotestosterone family do.

**INDICATIONS**
To re-stimulate the natural production of GH production following use of synthetic GH or IGF-1. For the treatment of aphasia (lack of hunger), joint injury, recovery and repair of muscle and joint tissue after injury or training. Weight and strength gain.

**SUGGESTED USE**
Typical doses of GHRP-6 range from 50mcg daily for joint repair and rehabilitation, 100mcg/day injected subcutaneously (for connective tissue strengthening) to 500mcg/day (for weight gain and an anabolic effect). 500mcg/day is the upper limit of effective dosing for GHRP-6.

**FUNCTIONS**
Benefits of increased Growth Hormone levels through GHRP-6 stimulation include: an increase in strength, muscle mass, rejuvenation and strengthening of joints, connective tissue and bone mass, weight gain and in some individuals, body fat loss. Enhanced GH secretion also leads to the liver secreting more IGF-1 (Insulin-Like Growth Factor 1), which is thought to be the primary anabolic mechanism of action for Growth Hormone.
INDICATIONS
For weight gain, increasing muscle mass.

SIDE EFFECTS
The major side effect accompanied by the use of GHRP-6 is a significant increase in appetite due to it stimulating the release of Ghrelin, a peptide which is released naturally in the lining of the stomach and increases hunger and gastric emptying which typically occurs within an hour of injection. Although GHRP-6 can have GH-like effects, the weight/production of excess adipose tissue is a negative factor.

HOW SUPPLIED
2mg peptide vial with rubber stopper containing freeze dried reconstitutable powder.

PREPARATION
Reconstitute the unmixed peptide by first removing the plastic flip top of the Peptide Vial. Swab exposed rubber stopper with alcohol.

Remove the plastic flip top on the Bacteriostatic water vial. Swab exposed rubber stopper with alcohol. With an insulin syringe, pull plunger back 100 units and slowly push into bacteriostatic water rubber seal. Depress plunger filling the bacteriostatic water vial with pressure and then turn upside down drawing 100 units of water.

Remove syringe from dilutent and carefully insert into peptide vial; for example. Inject water into peptide vial observing the clear reconstruction. The reconstituted peptide solution is ready and should be kept refrigerated for storage.

STORAGE
Unmixed vials containing dry peptide powder may be stored at room temperature, without refrigeration (avoid extreme heat).
Always store reconstituted peptide serum vials in the refrigerator.
Discard reconstituted peptide serum after 6 weeks.

EXPIRATION/SHELF LIFE
Unmixed peptides in powder form will remain stable up to 48 months (4 years) in the freezer. Unmixed vials can be stored in the freezer for a period of up to 48 months; however, if you are going to use the vials within 1 month store them in the refrigerator. Repeated freeze-thaw cycles can cause damage to the peptide.

REFERENCES


This data is intended for researchers and licensed medical professionals. It is intended for research purposes only. 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.

© 2011 Longevity Research Foundation