**Ipamorelin**

Selective Growth Hormone Pentapeptide Secretagogue

**DESCRIPTION**

Molecular Formula: C₃₈H₄₉N₉O₅  •  Molecular Weight:711.86  •  CAS No.:170851-70-4  •  Sequence: Aib-His-D-2-Nal-D-Phe-Lys-NH₂

Ipamorelin is a synthetic Pentapeptide that displays high Growth Hormone releasing properties, in both potency and efficacy in vitro and in vivo. Ipamorelin does not affect FSH, LH, PRL or TSH plasma levels.

Unlike the GHRP-2 and GHRP-6 peptides, Ipamorelin does not cause sudden spikes in prolactin, or release ACTH, Acetylcholine or cortisol. Ipamorelin's lack of effect on ACTH and cortisol plasma levels was evident even at doses more than 200-fold higher than the ED50 for GH release. Furthermore, Ipamorelin does not decrease the body's natural GH production, further proving that ipamorelin is the first GHRP-receptor agonist with a selectivity for GH release similar to that displayed by GHRH. This clearly proves that Ipamorelin is the first successful GHRP receptor agonist that binds to a receptor of a cell and triggers a response by that cell with a specific selectivity for the promotion of GH release by itself.

A pharmacological profiling of Ipamorelin using GHRP and growth hormone-releasing hormone (GHRH) antagonists clearly demonstrated that ipamorelin, like GHRP-6, stimulates GH release via a GHRP-like receptor. Whereas GHRP-6 is a hexapeptide (a chain of 6 amino acids), Ipamorelin is a penta-peptide (5 amino acids). Ipamorelin released GH with a consistency that is very comparable to GHRP-6. However, unlike GHRP-6, Ipamorelin does not induce hunger making it advantageous to those on a restricted calorie diet. Ipamorelin is also slower in its delivery, unlike GHRP's which spike GH levels at a more rapid rate. The slower release of GH experienced with Ipamorelin is more natural and has a more sustained effect on GH levels in the body.

**FUNCTIONS**

For the promotion of Growth Hormone release and the promotion and maintenance of lean muscle tissue. To stimulate increases in strength, muscle mass and body fat loss, rejuvenation and strengthening of joints, connective tissue and bone mass. Ipamorelin appears to have the highest anabolic properties of the GH releasing peptides. This peptide has the ability to stimulate growth hormone very significantly without causing spikes in prolactin, or stimulate the release of ACTH, Acetylcholine or cortisol which can be detrimental to the growth and maintenance of lean muscle tissue.

**INDICATIONS**

Ipamorelin is the new wave in GH releasing peptides. It appears to be more potent, longer lasting and potentially safer to use than GHRP-2 or GHRP-6. Ipamorelin seems to have the highest anabolic properties of the GH releasing peptides. Therefore, Ipamorelin has the potential to render conventional Growth Hormone use obsolete.

Like GHRP-6 Ipamorelin may help to re-stimulate the natural production of GH and increase GH levels when natural GH secretion has been inhibited by long term abuse of synthetic GH.

**SUGGESTED USE**

Take 100mcg preferably 30-45 minutes before a workout to get the maximum benefit from the pulse in Growth Hormone (GH) it creates allowing for maximum muscular growth. The physiological saturation dose of Ipamorelin is 100mcg. Therefore it is preferable to limit use to 100mcg per dose.

**SIDE EFFECTS**

None Reported
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
Dry powder may be stored at room temperature. Reconstituted serum should be refrigerated. Discard Reconstituted serum after 6 weeks.

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.