

Ipamorelin Overview

Overview:

Ipamorelin is a synthetic pentapeptide that belongs to the class of growth hormone secretagogues (GHS). It's a selective growth hormone-releasing peptide (GHRP) analog designed to stimulate endogenous growth hormone (GH) release.

Mechanism of Action:

Ghrelin Mimetic:

Ipamorelin mimics the action of ghrelin (the "hunger hormone"), binding to growth hormone secretagogue receptors (GHS-R1a) in the pituitary gland and hypothalamus.

Selective GH Stimulation:

Unlike other GHRPs, ipamorelin does not significantly increase cortisol or prolactin levels.

Pulsatile GH Release:

Enhances physiological GH pulsatility, mimicking natural GH release patterns.

Physiological Functions in the Body:

Growth Hormone Stimulation: Increases GH and IGF-1 levels, promoting muscle growth, fat metabolism, and recovery.

Tissue Repair: Enhances collagen synthesis and cell repair.

Fat Loss: Supports lipolysis and lean body composition.

Sleep & Recovery: Improves deep sleep and cognitive function.

Clinical & Research Use:

- Not FDA-approved for therapeutic use in the U.S.
- Commonly used in sports medicine and longevity clinics as part of anti-aging and regenerative medicine protocols.
- Studied for age-related GH decline, muscle wasting, and recovery enhancement.

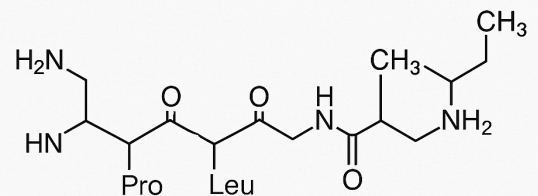
Dosing (Research Context):

Subcutaneous injection:

- Typical range: 100–300 mcg, 1–3 times per day.
Often used with CJC-1295 for synergistic GH release.
- Cycle length:
Commonly 8–12 weeks, with breaks to maintain receptor sensitivity.
- No official therapeutic guidelines – all dosing is investigational.

Conclusion:

Ipamorelin is a selective growth hormone secretagogue that promotes GH release without significantly affecting other hormones. Its potential benefits in tissue repair, fat loss, and recovery make it a promising tool in performance optimization and longevity research.



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