

Potential Uses & Benefits

- Stimulates physiologic pulsatile secretion of growth hormone
- Promotes growth in most cells including muscle
- Modulates hypogonadal symptoms
- Stimulates FSH and LH release
- Signals liver production of IGF-1

Dosage

- 100-500 mcg/day subcutaneously
- Inject 0.2 mL (20 units) subcutaneously qhs 1-2 hours after dinner or 5x weekly
- Place ½-1 troche (500 mg) sublingually qhs

Pharmacology

- Stimulates the pituitary gland and pituitary receptors to increase production and secretion of endogenous human growth hormone (hGH)
- Stimulates pituitary gene transcription of human (hGH) messenger RNA, increasing pituitary reserve supply of (hGH)

MOA

- Mimics GHRH
- Stimulates release of GH and liver IGF-1

Pharmacokinetics [2]

$C_{\max}$ = 5-20 minutes

V_d = 23.7-25.6 Liters

Cl = 2.4-2.8 L/min

$T_{1/2}$ = 1-12 minutes

Drug Interaction

None reported.

Laboratory Test Interactions

None reported.

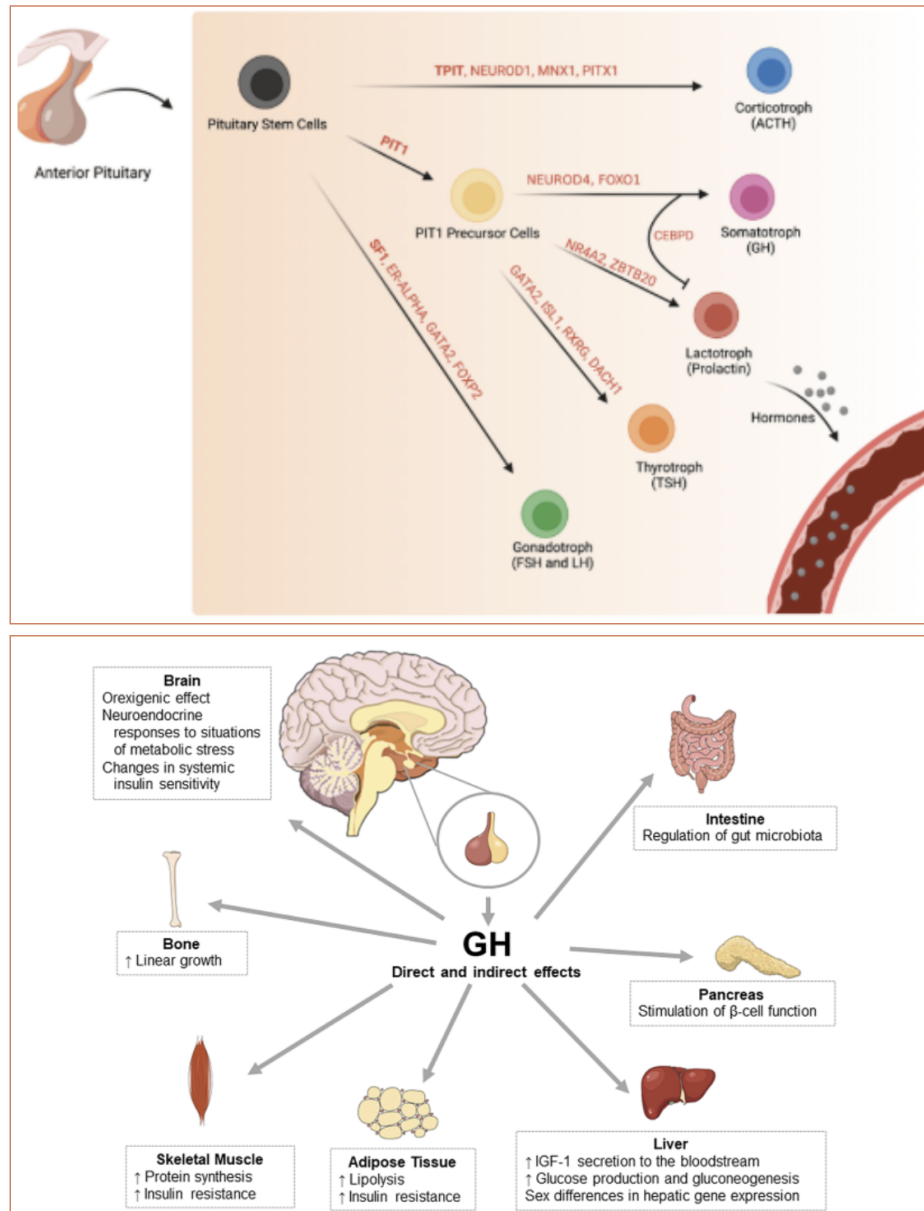
Adverse Effects >10%

Facial flushing; headache, nausea, pain, redness, or swelling at injection site, paleness, strange taste in mouth, vomiting.

Warnings and Precautions

There is a link between raised IGF-1 levels and risk for some types of cancer [1].

Miscellaneous Diagrams



References

- Knuppel, A., Fensom, G., Watts, E., Gunter, N., Papier, K., Perez-Cornago, A., Schmidt, J., Smith Byrne, K., Travis, R., Key, T. Circulating Insulin-like Growth Factor-1 Concentrations and Risk of 30 Cancers: Prospective Analysis in UK Biobank. *Cancer Res* (2020) 80 (18): 4014–4021. <https://doi.org/10.1158/0008-5472.CAN-20-1281>
- [Geref \(Serestim\) - WorldHealth.net](#)
- Gianturco, Stephanie L., Pavlech, Laura L., Storm, Kathena D., Yoon, SeJeong, Yuen, Melissa V., Mattingly, Ashlee N. Sermorelin acetate: Summary Report. University of Maryland Center of Excellence in Regulatory Science and Innovation University of Maryland School of Pharmacy. Baltimore. [Sermorelin acetate_Final_2020_12.pdf](#)