



HGH (Somatropin)

Human Growth Hormone · Recombinant Somatropin 191AA

OVERVIEW

HGH (Human Growth Hormone / Somatropin) is a 191 amino acid peptide hormone produced naturally by the anterior pituitary gland. Recombinant HGH is bioidentical to endogenous GH and is the gold standard for growth hormone replacement therapy. It supports lean muscle growth, fat metabolism, bone density, skin quality, and cellular regeneration — and is widely used in anti-aging, body composition, and hormone optimization protocols.

SPECIFICATIONS

Size	24 IU per vial (8mg)
Reconstitution	Add 2.4ml BAC Water → 10 IU/ml
Route	Subcutaneous (SubQ) injection
Best Time	Before bed or post-workout on empty stomach
Storage	Refrigerate 2–8°C; protect from light — do not freeze

CLINICAL APPLICATIONS

- Lean muscle growth & preservation
- Bone density & skeletal strength
- Post-injury & surgical recovery
- Visceral & subcutaneous fat reduction
- Skin elasticity & anti-aging
- Adult GH deficiency replacement

MECHANISM OF ACTION

HGH binds GH receptors on target tissues, stimulating the JAK-STAT signaling pathway to upregulate IGF-1 synthesis in the liver and peripheral tissues. Elevated IGF-1 drives anabolic protein synthesis in muscle and bone, while GH directly stimulates lipolysis in adipose tissue via hormone-sensitive lipase. HGH also promotes cellular repair, collagen synthesis, and immune modulation throughout the body.

RECONSTITUTION & DOSING GUIDE · SubQ Injection · U-100 Insulin Syringe

2.4ml BAC Water + 24 IU vial = 10 IU/ml. U-100 syringe: 10 units = 1 IU · Inject SubQ before bed for optimal GH pulse alignment.

PHASE	DOSE	SYRINGE UNITS (U-100)	FREQUENCY
Anti-Aging / Wellness	1–2 IU	10–20 units	Once daily
Body Composition	2–4 IU	20–40 units	Once daily
Recovery / Injury	4–6 IU	40–60 units	Split twice daily
Advanced	6–8 IU	60–80 units	Split twice daily
Max Dose	10 IU	100 units	Split twice daily