

32-12101: Human Growth Hormone

Gene : GH1
Gene ID : 2688
Uniprot ID : P01241

Alternative Name : Growth hormone, Growth hormone 1, Pituitary growth hormone, Somatotropin

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 22.3 kDa (192 aa)

Growth hormone (GH) is an important mitogenic growth factor that is synthesized, stored, and secreted by somatotrophic cells of the anterior pituitary gland. GH stimulates growth, cell reproduction, and cell regeneration. In children, GH deficiencies can cause short stature, growth failure, and delayed sexual maturity. Adult GH deficiency presents with reduced lean body mass, increased adiposity, reduced muscle strength, and ultimately premature mortality. GH replacement therapy is used to treat many growth disorders, including Turner syndrome, chronic renal failure, and Prader-Willi syndrome.

Product Info

Amount : 500 µg / 1 mg

Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$

Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium bicarbonate, pH 8.0
Sterile water at 0.1 mg/mL

Storage condition : Store at -20°C

Amino Acid : MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFEEAYIPKE QKYSFLQNPQ TSLCFSESIP TPSNREETQQ KSNLELLRIS LLLIQSWLEP VQFLRSVFAN SLVYGASDSN VYDLLKDLEE GIQTLMGRL E DGSPRTGQIF KQTYSKFDTN SHNDDALLKN YGLLYCFRKD MDKVETFLRI VQCRSVEGSC GF

Application Note

Endotoxin: Less than $0.1 \text{ ng}/\mu\text{g}$ ($1 \text{ IEU}/\mu\text{g}$) as determined by LAL test.

Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



