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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:Â Monomer, 22.3 kDa (192 aa)

Growth hormone (GH) is an important mitogenic growth factor that is synthesized, stored, and secreted by somatotropic 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 PraderÂ-Willi syndrome.

Product Info

Amount: $500 \mu g / 1 mg$

Purification: Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium

Content: bicarbonate, pH 8.0

Sterile water at 0.1 mg/mL

Storage condition : Store at -20°C

Amino Acid: MFPTIPLSRL FDNAMLRAHR LHOLAFDTYO EFEEAYIPKE OKYSFLONPO TSLCFSESIP TPSNREETOO

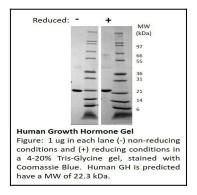
KSNLELLRIS LLLIQSWLEP VQFLRSVFAN SLVYGASDSN VYDLLKDLEE GIQTLMGRLE DGSPRTGQIF

KQTYSKFDTN SHNDDALLKN YGLLYCFRKD MDKVETFLRI VQCRSVEGSC GF

Application Note

Endotoxin: Less than 0.1 ng/ \tilde{A} $\square \hat{A}\mu g$ (1 IEU/ \tilde{A} $\square \hat{A}\mu g$) 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 \tilde{A} $\|$ A $^{\circ}$ 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 vialed to compensate for this loss. \tilde{A} $\|$ A $^{\circ}$





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