Recombinant SOMA protein (His tag)

Catalog Number	541981
Synonyms	Growth hormone; GH; GH-N; Growth hormone 1; Pituitary growth hormone
Species	Human
Expression System	E. coli
Accession	P01241
Molecular Weight	Predictes a molecular mass of 23.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	27-217
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 27-217 aa (P01241) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the Recombinant Human Somatotropin (Growth Hormone) Fragment (residues 27-217), a high-quality protein product designed for structural and biochemical research. This 191-amino acid fragment represents a stable and soluble unit of the full-length growth hormone, optimized for experimental applications in growth regulation and cellular signaling studies. Somatotropin, also known as Growth Hormone (GH-N) or Growth Hormone 1, is a critical protein encoded by the GH1 gene in humans that plays a fundamental role in growth control. Its primary function involves stimulating the liver and other tissues to secrete IGF1, thereby promoting body growth. Additionally, this hormone drives both the differentiation and proliferation of myoblasts while enhancing amino acid uptake and protein synthesis in muscle and various other tissues. As a secreted protein, Somatotropin functions extracellularly, where it exerts its systemic effects on growth and metabolism, making it an essential subject for endocrine and developmental biology research.