

Recombinant Rat SOMA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52230

Size: 10ug, 100ug

Protein Name: Somatotropin (Growth hormone)

Synonym: Gh1, Gh

UniProt ID: P01244

UniProt Link: www.uniprot.org/uniprotkb/P01244/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 216 AA

Molecular Weight: 25 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAADSQTPWLLTFSLLCLLWPQEAGAFPAMPLSSLFANAVLRAQHLHQLAADTYKEFERAYIPEGQ
RYSIQNAQA AFCFSETIPAPTGKEEAQQRTDMELLRFSLLIQSWLGPVQFLSRIFTNSLMFGTSDRV
YEKLKDLEEGIQALMQELEDGSPRIGQILKQTYDKFDANMRSDDALLKNYGLLSCFKKDLHKAETYL
VMKCRRFAESSCAF

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Somatotropin (Growth hormone) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

Subcellular Localization: Secreted.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.