

Recombinant Mouse INS1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51210

Size: 10ug, 100ug

Protein Name: Insulin-1 [Cleaved into: Insulin-1 B chain; Insulin-1 A chain]

Synonym: Ins1, Ins-1

UniProt ID: P01325

UniProt Link: www.uniprot.org/uniprotkb/P01325/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 108 AA

Molecular Weight: 12 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MALLVHFLPLLALLALWEPKPTQAFVKQHLGPHLVEALYLVCGERGFFYTPKSRREVEDPQVEQLE
LGGSPGDLQTLALEVARQKRGIVDQCCTSIKSLYQLENYCN

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 Insulin-1 [Cleaved into: Insulin-1 B chain; Insulin-1 A chain] 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: Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

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.